WinFXNet Configuration Tool (version 4.0)

For Fire Alarm System FXNet

Schneider Electric

CONTENT

General **3**

WinFXNet Installation **3**
Distribution 3
Installation 4
License file 4

Main Window **6**

To start a new project **8**

FXNet Data form **8**
The Panels page 9
The Panel visibility page 10
The Loops and Zones page 11

Configuring the panels **12**

General Panel Data **12**
Panel Info page 13
Communication page 14
Identifications page 16
Loop Controllers page 17
Control Outputs page 18
MCIO Setup page 19
IO controllers page 20
MC and IOC Clean Contact Input functions 23
MC, IOC and OCA Clean Contact Output functions 23
MC and IOC Monitored Relay Output functions 24
Delayed outputs page 24
Print and Log page 26
Miscellaneous page 27

Address and Text data **29**
Address table columns 30
Changing the detection zone 33
Type selection 33
Changing sensitivity and detection parameters 39
Selecting control groups for outputs 44
Editing texts 44
Closing the Address Data window 44

Summary of addresses **45**

Address reports **46**

File Opening, Merging and Saving **47**
Opening an existing file 47
Merging an existing FX file 47
Merging an existing ESA file 48
Saving data to a file 48

Printing **50**
Printer setup 50
Printing the data 51

To send/receive data to/from the panel **53**
Sending data to a panel 53
Reading data from a panel 53
Communication handler dialog 53

To EXIT the program **55**

© 2011 Schneider Electric. All rights reserved.

General

The WinFXNet program enables you to configure a system of up to 32 panels of the FX family with any type of loop controllers; LC, CLC, ALC or SLC.

The program is written for the following 32-bit Windows versions: Windows 2000, Windows XP, Windows Vista and Windows 7.

The general procedure for working through the configuration is the following:
- Collect all necessary documentation for the project
  - Detector location plans
  - Cabling drawings
  - List of texts to be displayed by the panel in alarm conditions
  - etc.
- Start the program
- Select File - New from the main menu
- Add panels to the system
- For each panel, select it in the left pane of the window
- Activate the General Panel Data form
- Go through all pages on the General Panel Data form modifying the settings as appropriate
- Close the General Panel Data form and activate the Address and Text Data form
- Select device types for each address to be installed and write the text that the panel should display in alarm condition.
- Close the Address and Text Data form and save the file.
- Prepare the panel for configuration and send the configuration data to the panel.
- Restart the panel and check that it recognizes all addresses correctly and that the texts displayed for the addresses are correct.

The general procedure for doing a modification of an existing configuration is the following:
- Either open a file or read the current configuration from the panel.
- Make any necessary modifications, first to General Panel Data and then to Address and Text Data.
- Save the file on disk.
- Send the new configuration data to the panel.

All of the above items will be explained in detail in this manual.

WinFXNet Installation

Distribution

WinFXNet is distributed as an installation package in a file named WinFXNet_x.y.z_Setup.exe, where *x* is the major version, *y* is the minor version of the program and z is the release number, for example WinFXNet_4.0.1_Setup.exe.
The installation package does not include a license file since the license is personal. See 'License file' for more information.

© 2011 Schneider Electric. All rights reserved.

Installation

The installation has to be run under an administrators account

The installation package contains the following files:

File name	Comment
WinFXNet.exe	The executable program file
EsSDL32.dll	Communication library
winfxnetdk.txt winfxnetfi.txt winfxnetgb.txt winfxnetno.txt winfxnetse.txt	Translation files for the user interface of the program
ReadMe-DK.rtf ReadMe-.FIrtf ReadMe-GB.rtf ReadMe-NO.rtf ReadMe-SE.rtf	ReadMe files that are shown at the end of the installation
HASPUserSetup.exe	License key installation package

In addition, the installation program creates two files to support uninstallation:
unins000.dat
unins000.exe

All files, except HASPUserSetup.exe are installed by the installation program to the following directory:
- **C:\Program Files\Pelco\WinFXNet\4.0**

HaspUserSetup.exe is installed in a subdirectory:
- **C:\Program Files\Pelco\WinFXNet\4.0\HASP**

During the installation process, the user (installer) is presented options to select if the License key installation should be run or not. Running the HASP license key driver setup requires a restart of the computer.

The installation program creates icons (links) in the Start menu
- to launch WinFXNet
- to review the ReadMe file (in the language that was selected for installation)
- to launch installation of the HASP license key drivers
- to uninstall the WinFXNet package

Optionally the installation program also creates an icon (link) on the desktop
- to launch WinFXNet

License file

A license information file, named "winfxnet.lic" is required for running the WinFXNet program. It is looked for in the following directory:
If the Operating System (OS) is Windows 2000 or Windows XP:
- **C:\Documents and Settings\<username>\Local Settings\Application Data\Pelco\WinFXNet**

If the OS is Windows Vista:
- **C:\Users\<username>\AppData\Local\Pelco\WinFXNet**

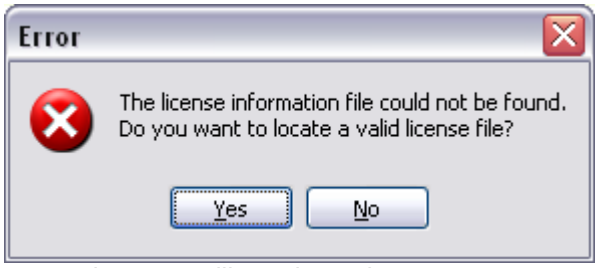
These directories are, however, by default OS settings, hidden and therefore not easily accessible to many users. The WinFXNet software is therefore programmed to assist the user to place the file in the correct location. The user must have obtained a valid license file and have it available when (s)he starts the program for the first time or when the license is about to expire or has already expired.

The first time start up of WinFXNet should be performed by the end user, not the person who installed the program because the above mentioned directories are user specific.

When the program is started it looks for the license file in the above mentioned directory and

© 2011 Schneider Electric. All rights reserved.

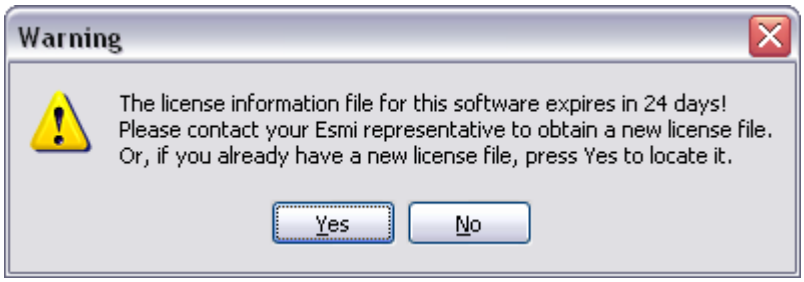
- If the file is not found, this dialog will be shown:



Answering "No" will terminate the program!

- If the file is corrupted or has expired a similar dialog will be shown indicating the error and asking if a valid license file should be located.

- If the file is found but there's less than 60 days remaining of the license time, this dialog will be shown:

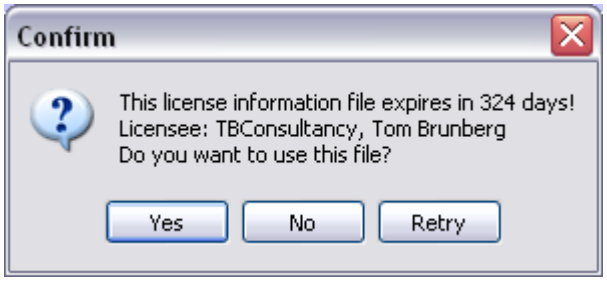

Warning
The license information file for this software expires in 24 days!
Please contact your Esmi representative to obtain a new license file.
Or, if you already have a new license file, press Yes to locate it.
Yes
No

Answering "No" will not terminate the program, the existing license file will be used.

- If the user answers "Yes" to any of the above dialogs, an ordinary file open dialog will be displayed and the user can now navigate to the valid license file and select it.

  Note! The license file that the user selects does not have to be named "winfxnet.lic". The license files may be distributed with a name like "winfxnet[1].lic - company - user" and it is perfectly OK to select a file with such a name. Whatever name the file has, it must of course be a valid WinFXNet license file.

  The program will then ask for a confirmation:

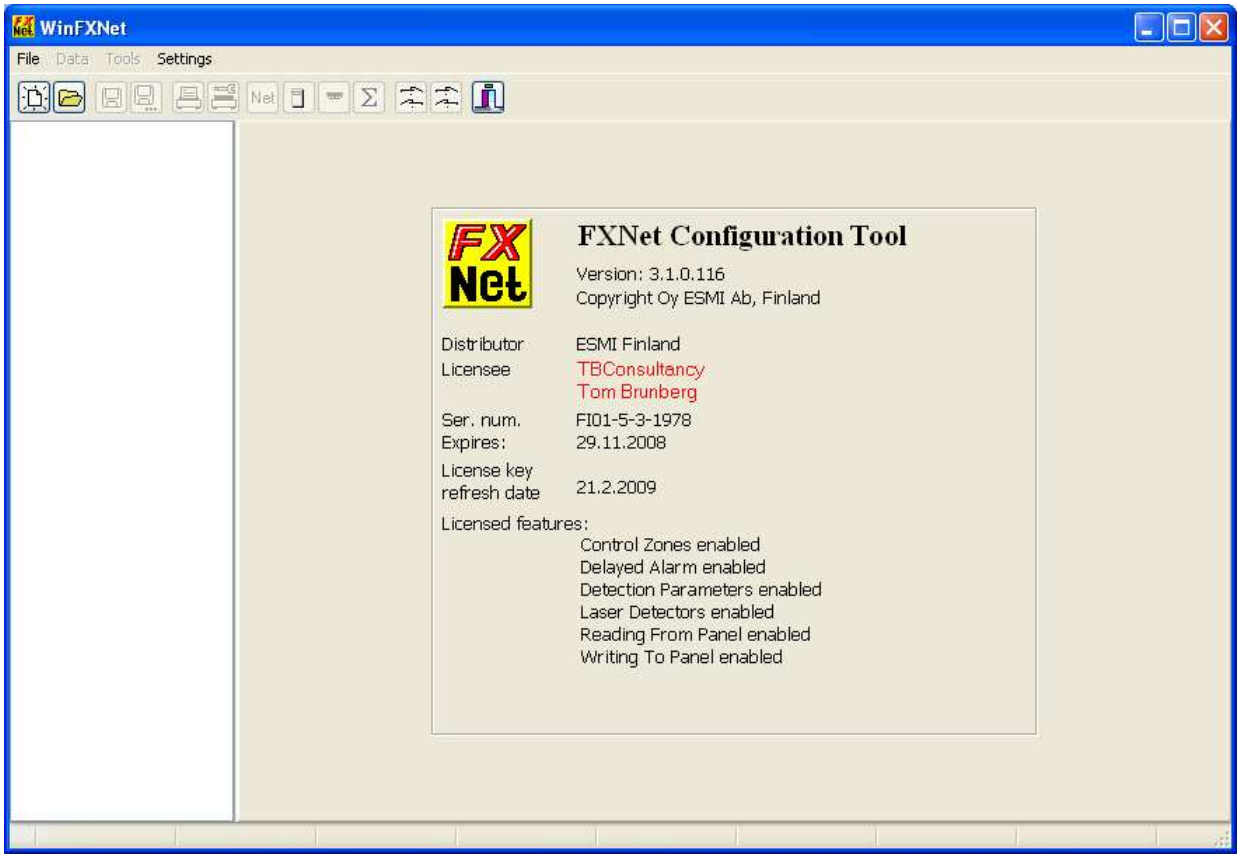


  Answering "Yes" will make a copy of the license file in the proper directory and with the correct name and then use that file.
  Answering "No" will terminate the program if the existing license file is not found, if it is corrupted or if it has expired, or, use the existing file if it is valid but about to expire.
  Answering "Retry" will open the ordinary file selection dialog again, to navigate to another file.

© 2011 Schneider Electric. All rights reserved.

Main Window

The main window contains the main menu and a toolbar. You may notice that initially some menu items and toolbar buttons are grayed which means that they are not selectable. They will be selectable as soon as you create a new file or open an existing one.



The menu has the following items:

File
- New
- Open ...
- Merge FX file...
- Merge ESA file ...
- Save
- Save As ...
- Import ...
- Export ...
- Print ...
- Print Setup ...
- Exit

Data
- Network Data
- General Panel Data
- Address and Text
- Summary of Addresses
- Address reports ...
- Configuration Info ...

Tools
- Receive from panel
- Send to panel

Settings
- Language
- Display Font
- Default Data Folder
- Special settings

© 2011 Schneider Electric. All rights reserved.

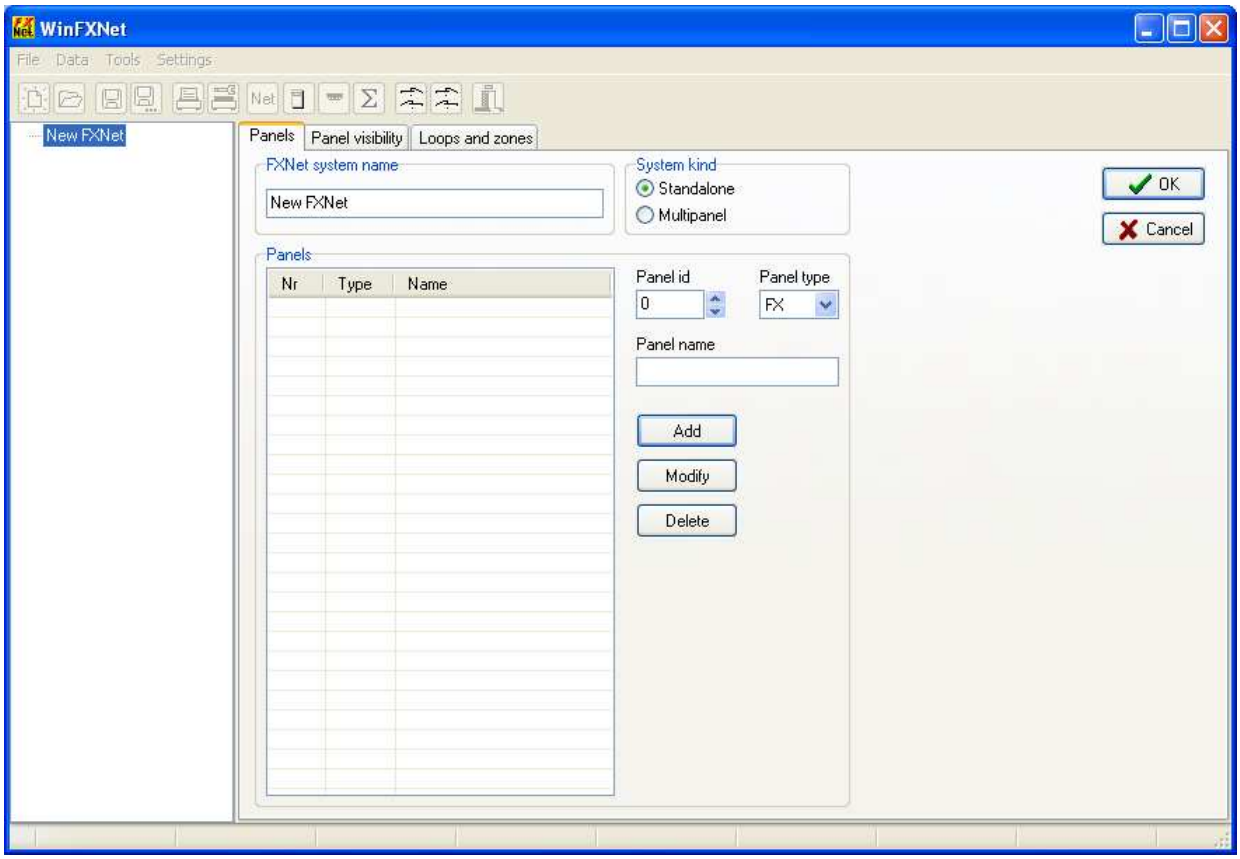
The toolbar has the following items:

Button	Corresponding menu selection	Purpose
	File – New	Prepares the program for a new configuration
	File – Open ...	Opens an existing configuration file
	File – Merge FX file ...	Merges an FX file into the current configuration
	File – Merge ESA file ...	Merges an ESA file into the current configuration
	File – Save	Saves the current configuration data in a file using the current filename
	File – Save As ...	Saves the current configuration data in a file using a new filename
	File – Import ...	Imports data from an Excel file
	File – Export ...	Exports data to an Excel file
	File – Print ...	Prints the current configuration data
	File – Print Setup ...	Opens a printer settings dialog
Net	Data – Network Data	Opens the FXNet form for defining the panels that make up the network
	Data – General Panel Data	Opens the General panel data form
	Data – Address and Text Data	Opens the Address and text data form
Σ	Data – Summary of Addresses	Opens a form with a summary of currently configured addresses
	Data – Address reports	Opens a form for listing and sorting addresses and to print the listing
	Data – Configuration info	Opens a form with information (last modifications by who and when) about the current configuration
	Tools – Receive From Panel ...	Opens a dialog for receiving configuration data from an FX panel
	Tools – Send To Panel ...	Opens a dialog for transmitting configuration data to the selected FX panel
	Settings – Language ...	To select the language for the program. A file named winfxnetxx.txt (where xx is the selected language code) has to reside in the directory of the WinFXNet.exe.
	Settings – Display font ...	To select a display font for the program
	File – Exit	Terminates the program

© 2011 Schneider Electric. All rights reserved.

To start a new project

Select **File – New** from the menu or press the button on the Toolbar.



The left pane shows the root of the system with the text 'New FXNet'.

The right pane has the FXNet Data form that consists of three tabbed pages and two buttons, 'OK' and 'Cancel'.

The 'OK' and 'Cancel' buttons are visible on all three pages and have the following functions:

OK — Actuates the changes you have made and saves the panel list to FXNet system data.

Cancel — Cancels the changes you have made.

FXNet Data form

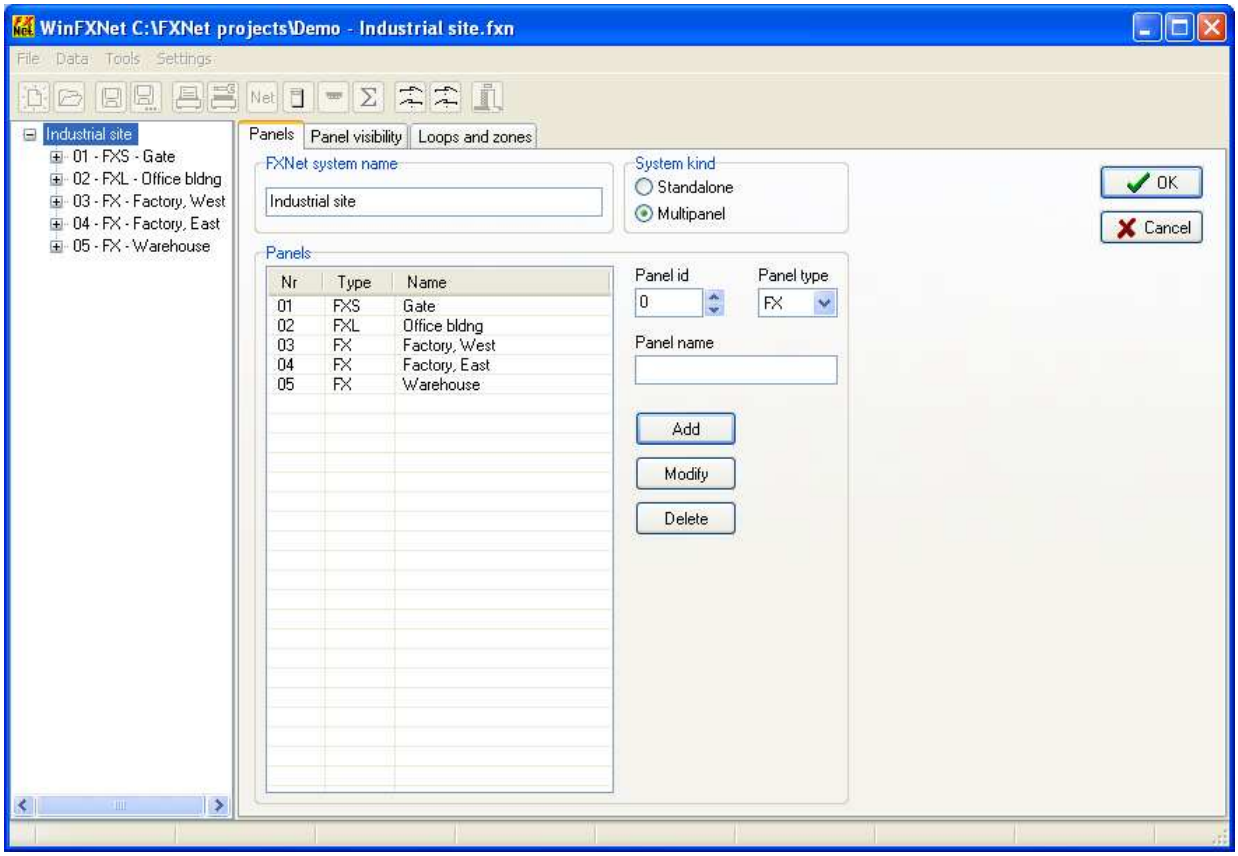
Select **File – New** from the menu or press the button on the Toolbar
or, if you already have visited this form earlier select the root item in the left pane and then **Data – Network data** from the menu or press the Net button on the Toolbar

The FXNet Data form has three tabbed pages, **'Panels'**, **'Panel visibility'** and **'Loops and zones'**.

The default page is the 'Panels' page. However, the last used page is remembered and shown again when you return to this view.

© 2011 Schneider Electric. All rights reserved.

The Panels page



In the edit control 'FXNet system name' you can change the name of the system. The change is reflected in the left pane root item also.

With the 'System kind' control you can define whether the system will consist of only one, standalone panel or of 1 ... 32 FX networked panels. If you attempt to change the setting after you have defined a panel (standalone) or several panels (multipanel), you will be notified that the erroneous panel(s) will be deleted from the list. You then have the option to cancel the change or proceed with it. **Warning! If you, after a change of the system kind and deletion of erroneous panels in the list press OK, all General Panel Data, Address Data and Text Data belonging to the deleted panels are lost!**

Note! The 'System kind' selection might be locked to 'Standalone' and disabled due to license restrictions.

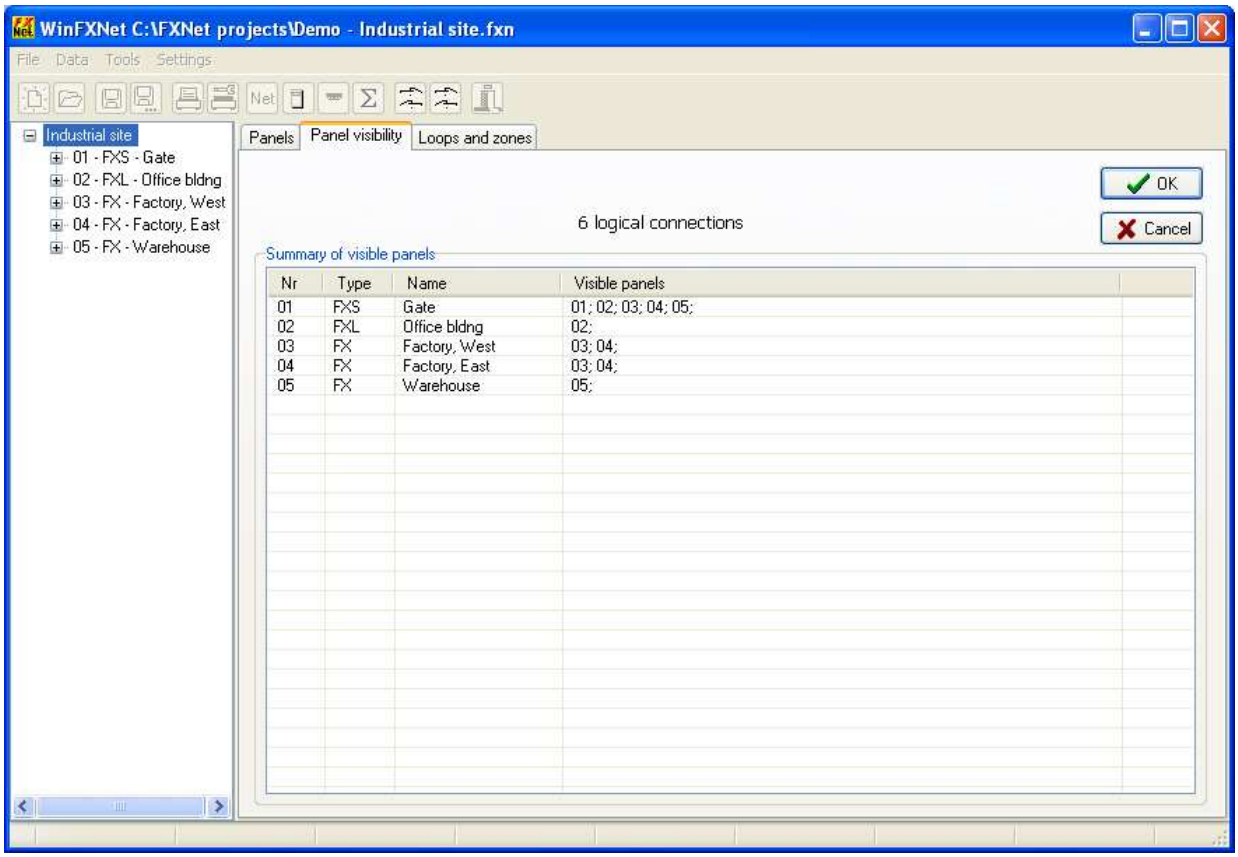
With the 'Panel ID' control you give an individual number for each panel. The panel ID's do not have to be consecutive. If system kind is **standalone**, you can define only one panel, and its ID has to be 0. If system kind is **multipanel**, you can define 1 ... 32 panels and none of them can have an ID of 0.

The 'Type' control defines the type of panel. Available values are 'FX', 'FXL', 'FXM' and 'FXS'. This is only for documentation purposes and has no effect on the configuration of the panel.
In the 'Panel name' field you can write whatever you want to call the panel.

Add	Adds an entry to the panel table, with the ID, Type and Name you have defined
Modify	Modifies the panel Type and Name for the panel you have selected with 'Panel id'
Delete	Deletes the selected panel (defined by the ID) from the table

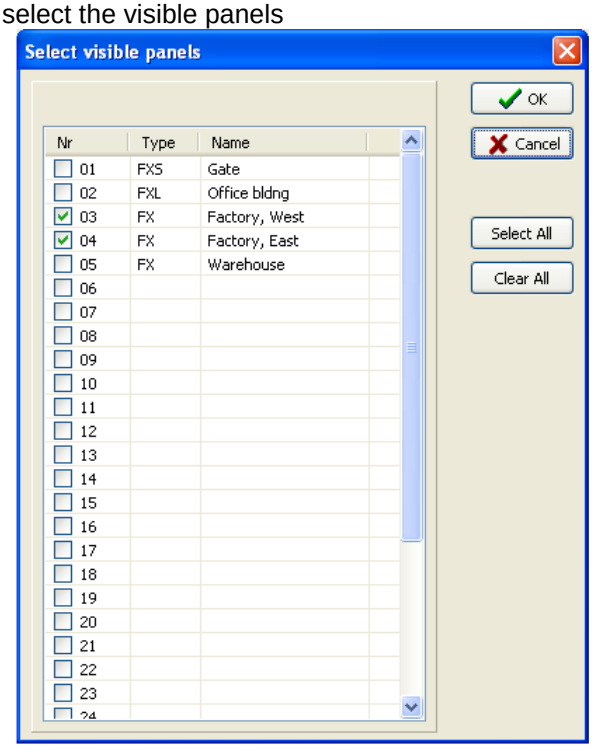
© 2011 Schneider Electric. All rights reserved.

The Panel visibility page


WinFXNet C:\FXNet projects\Demo - Industrial site.fxn
File Data Tools Settings
Industrial site
01 - FXS - Gate
02 - FXL - Office bldng
03 - FX - Factory, West
04 - FX - Factory, East
05 - FX - Warehouse
Panels
Panel visibility
Loops and zones
OK
Cancel
6 logical connections
Summary of visible panels
Nr Type Name Visible panels
01 FXS Gate 01; 02; 03; 04; 05;
02 FXL Office bldng 02;
03 FX Factory, West 03; 04;
04 FX Factory, East 03; 04;
05 FX Warehouse 05;

The 'Panel visibility' page shows the **'Seeing - Visible'** relation between the panels. For each panel you can define which panels it sees, in other words monitors and controls. It also calculates the number of logical connections. The FXNet system is designed for a maximum of 256 logical connections between the panels.

To enter / change visibility definitions, right-click on a row in the table. A popup menu is displayed with three items 'Select ...', 'Copy' and 'Paste'. With the 'Copy' (Ctrl-C) and 'Paste' (Ctrl-V) items you can copy the definition of visible panels of one panel to another. The 'Select ...' item will open a dialog where you can select the visible panels



You select the visible panels by checking the boxes for the panels that should be visible to the panel you have selected in the table.

Select All — Selects all checkboxes

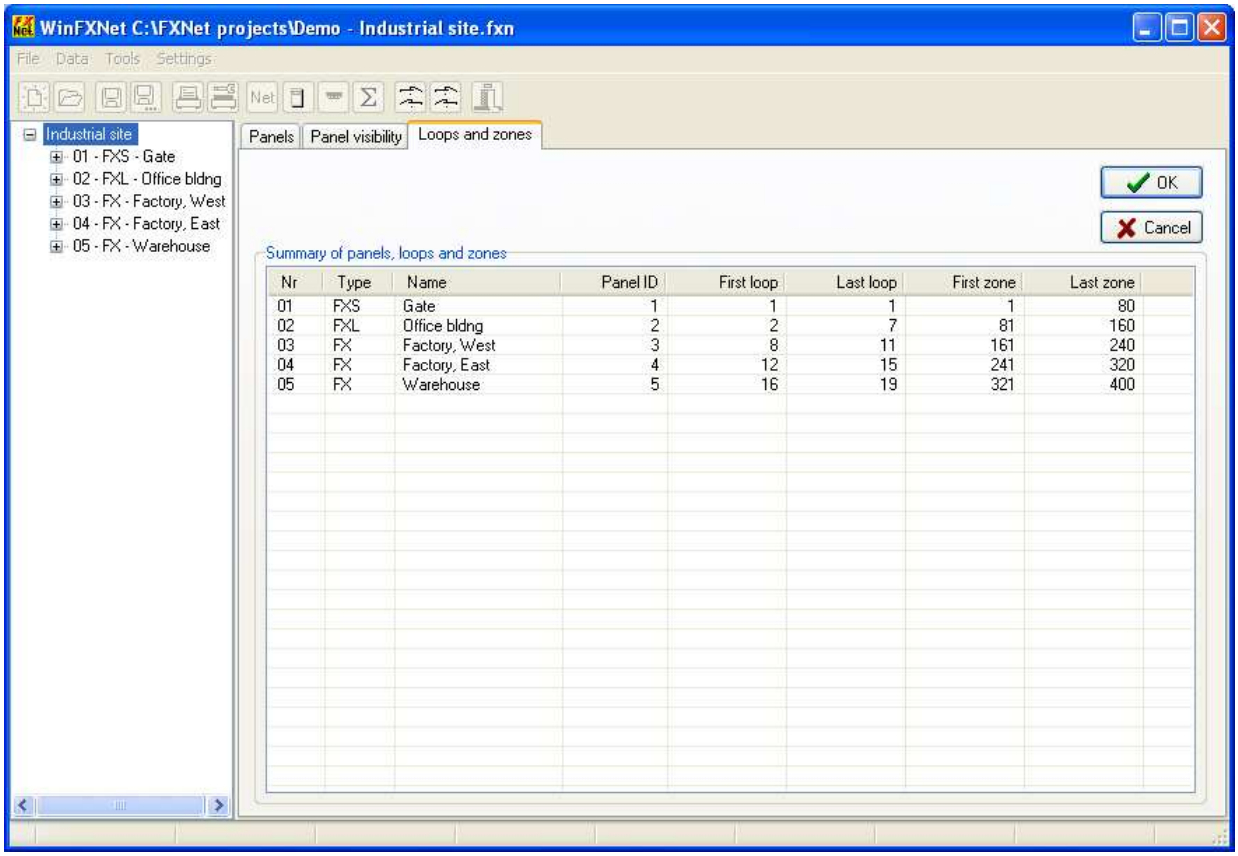
Clear All — Deselects all checkboxes

By definition a panel always sees itself. It doesn't matter if you select or deselect it here. It makes it easier to copy a definition among several panels if you select all that are mutually visible.

If you checkmark a panel that is not part of the installation, it will create a constant fault warning when the system is running.

© 2011 Schneider Electric. All rights reserved.

The Loops and Zones page


WinFXNet C:\FXNet projects\Demo - Industrial site.fxn
File Data Tools Settings
Industrial site
01 - FXS - Gate
02 - FXL - Office bldng
03 - FX - Factory, West
04 - FX - Factory, East
05 - FX - Warehouse
Panels
Panel visibility
Loops and zones
OK
Cancel
Summary of panels, loops and zones
Nr Type Name Panel ID First loop Last loop First zone Last zone
01 FXS Gate 1 1 1 1 80
02 FXL Office bldng 2 2 7 81 160
03 FX Factory, West 3 8 11 161 240
04 FX Factory, East 4 12 15 241 320
05 FX Warehouse 5 16 19 321 400

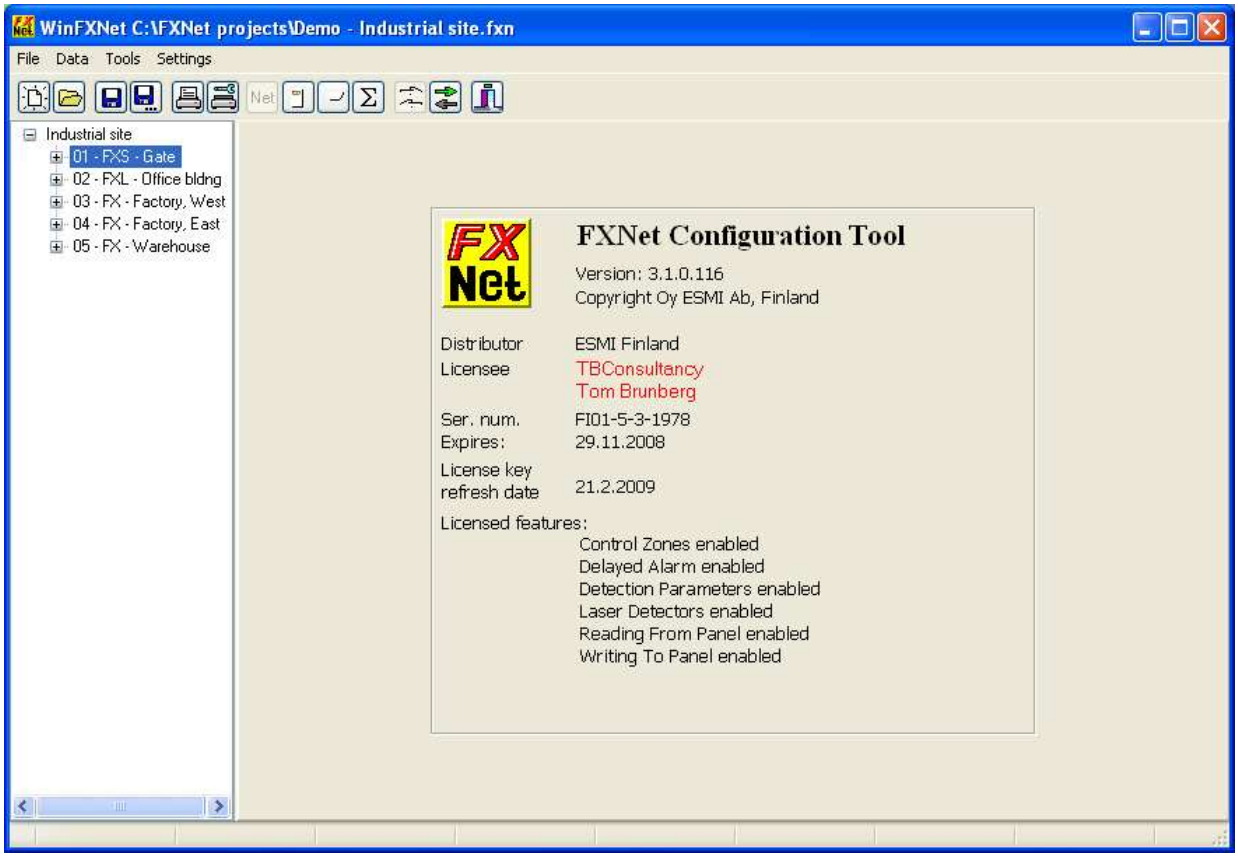
The 'Loops and zones' page shows the loops and zones defined for each panel. This form is only informative; you can not change the definitions here. You define the loop controllers and the loop identifications as well as zone ranges in the individual panel's configuration.

Initially, when you define the panels and go to this page before you press the 'OK' button, the table will show 'NA' for 'not available' since the panels are not yet configured with that information.

© 2011 Schneider Electric. All rights reserved.

Configuring the panels

In the left pane, select the panel you want to configure. This will change the toolbar to disable the 'Net' and the 'Receive From Panel' buttons and enable the 'General Panel Data', 'Address and Text Data', 'Address Summary' and 'Send to Panel' buttons, as well as the corresponding main menu items.
It will also change the meaning of the 'Print' button and corresponding main menu item to print the configuration of the selected panel.



General Panel Data

Select **Data – General Panel Data** from the menu or press the button on the Toolbar to open the General Panel Data form.

It is important to start with the General Panel Data before proceeding to the Address and Text data dialog, because many entries in the General Panel Data affect entries in the Address Data form.

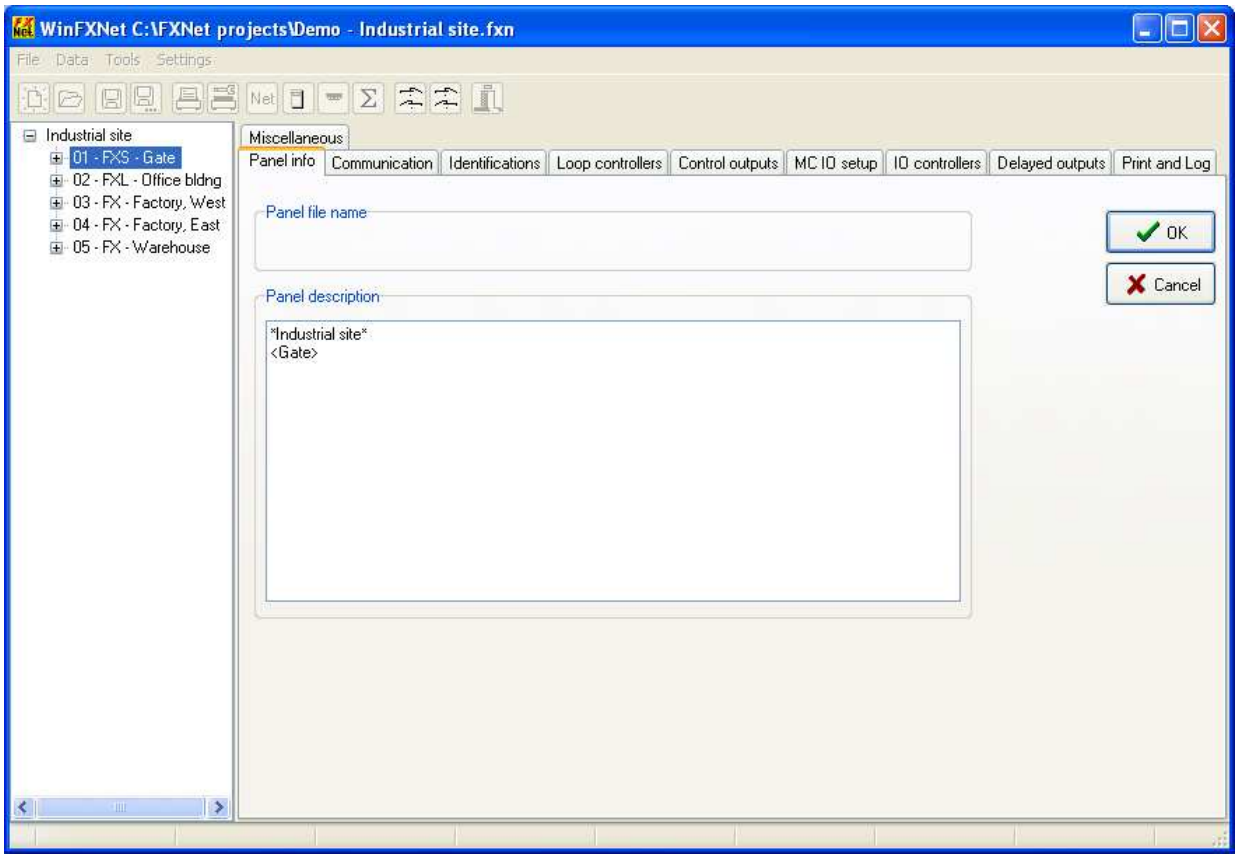
The General Panel Data form is shown. The form has ten pages which are selected by clicking on the tab. Initially the ‘Panel info’ page is shown.

© 2011 Schneider Electric. All rights reserved.

Panel Info page

On the ‘Panel info’ page you can enter 250 characters in the description field. Typical entries could be the name and/or address of the building.

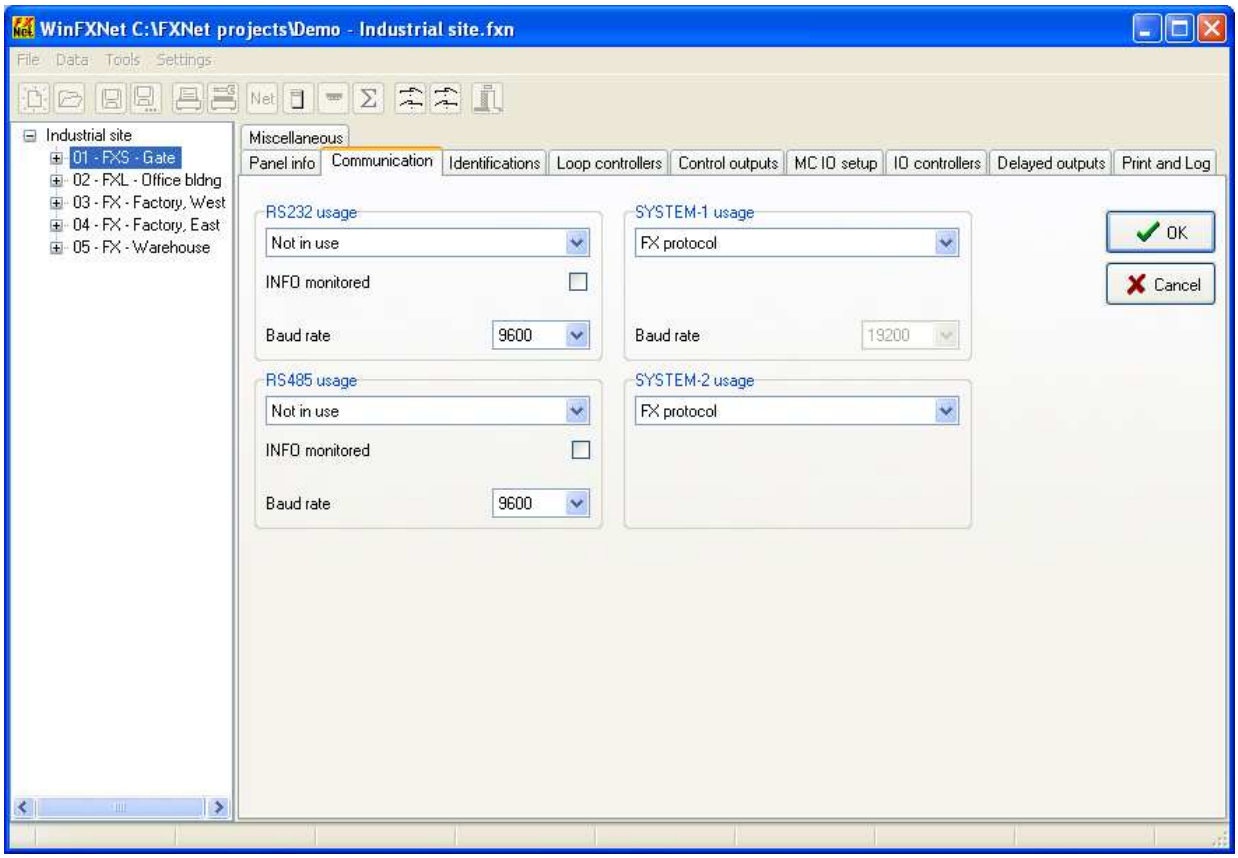
The **system name**, given in the network definition, becomes the first line in the panel description and is enclosed in a pair of asterisks. The **panel name** becomes the second line in the panel description enclosed in left and right angle brackets (< and >). **Leave these as such on the first and second line**; otherwise the network view will not be able to extract the system name and the panel name from the description.



© 2011 Schneider Electric. All rights reserved.

Communication page

On this page you select communication protocol for each communication port



Available protocol options for the **RS232 port** (on the MC board) are:

'Not in use'	No communication will take place on the port
'Printer protocol (ASCII)'	For connecting a printer
'INFO protocol'	The INFO protocol is a proprietary communication protocol for point-to-point communication between compatible devices. The protocol sends alarms, fault warnings, disablement and re-enablement messages to an external device.

Other options for the RS232 port are:

INFO monitored	When this is checked, the panel issues a fault alarm if the communication is interrupted.
Baud rate	Available options are 1200, 2400, 4800, 9600 and 19200

© 2011 Schneider Electric. All rights reserved.

Available options for the **RS485** port (on the optional SAA or SAB boards) are:

'Not used'	No communication will take place on the port
'INFO protocol'	The INFO protocol is a proprietary communication protocol for point-to-point communication between compatible devices. The protocol sends alarms, fault warnings, disablement and re-enablement messages to an external device.

Other options for the RS485 port are:

INFO monitored	When this is checked, the panel issues a fault alarm if the communication is interrupted.
Baud rate	Available options are 1200, 2400, 4800, 9600 and 19200

Available options for the **SYSTEM-1** port (on the optional SAB boards) are:

'Not used'	No communication will take place on the port
'FX protocol'	For communication in a networked FX system

Other options for the SYSTEM-1 port are:

Baud rate	Available options are 1200, 2400, 4800, 9600 and 19200 For 'FX protocol' the baud rate is fixed at 19200

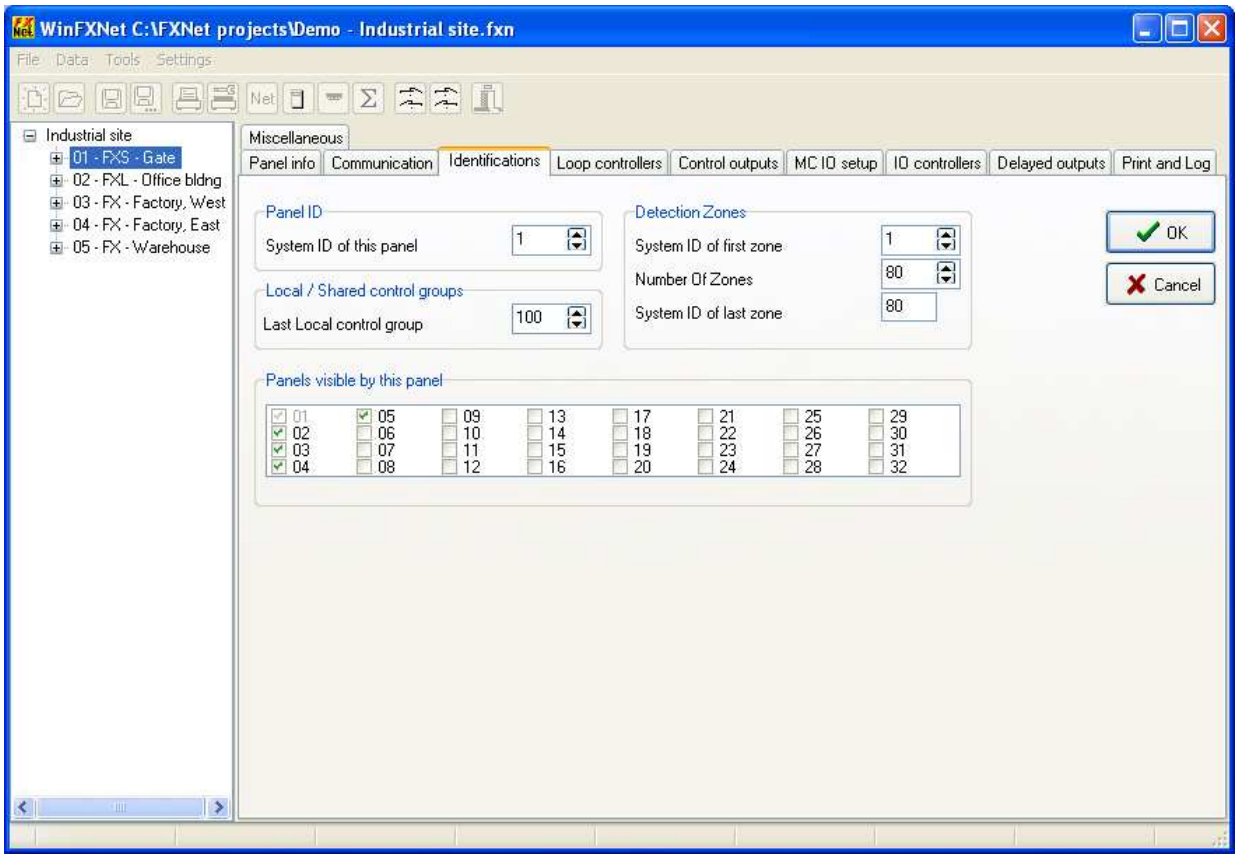
Available options for the **SYSTEM-2** port (on the optional SAB boards) are:

'Not used'	No communication will take place on the port
'FX protocol'	For communication in a networked FX system

© 2011 Schneider Electric. All rights reserved.

Identifications page

On the Identifications page you specify the Panel ID, Detection Zones, Split point for Local / Shared Control Groups and Panels Visible to this panel.



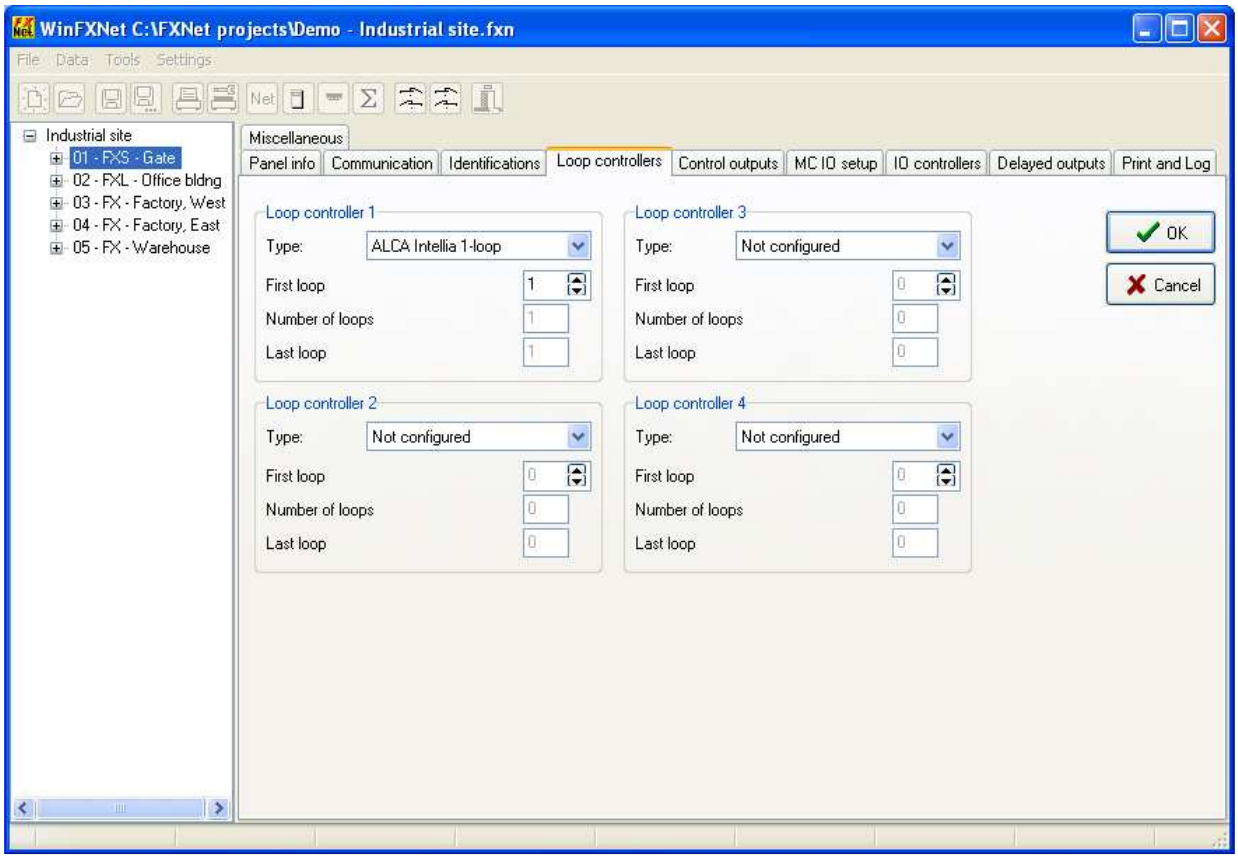
Field	Purpose
System ID of this panel	Indicates what ID (identification) the panel is assigned in communication with other panels/devices. This is 0 by definition in standalone FX panels.
System ID of first zone	The first zone of the panel. By default it is 1, and you can increase it to whatever value until 9999 – number of zones. The zones of a panel have to be consecutive.
Number of zones	This is by default 80, and you can change it to anything in the range 1 … 250
System ID of last zone	The last zone of the panel. This is calculated on basis of first zone and number of zones.
Last Local Control group	defines the split point for local and shared control groups. The default is 100 which means that control groups 1 ... 100 are local and can only be used by this panel itself. Control groups 101 ... 250 are shared over the network and can be used as control activation criteria in all seeing panels

Note!
It is an error to define the same Panel ID for two or more panels.
It is an error to define overlapping zones for two or more panels.

© 2011 Schneider Electric. All rights reserved.

Loop Controllers page

On the ‘Loop controllers’ page you define the Loop Controller boards in the panel and the loop numbers.



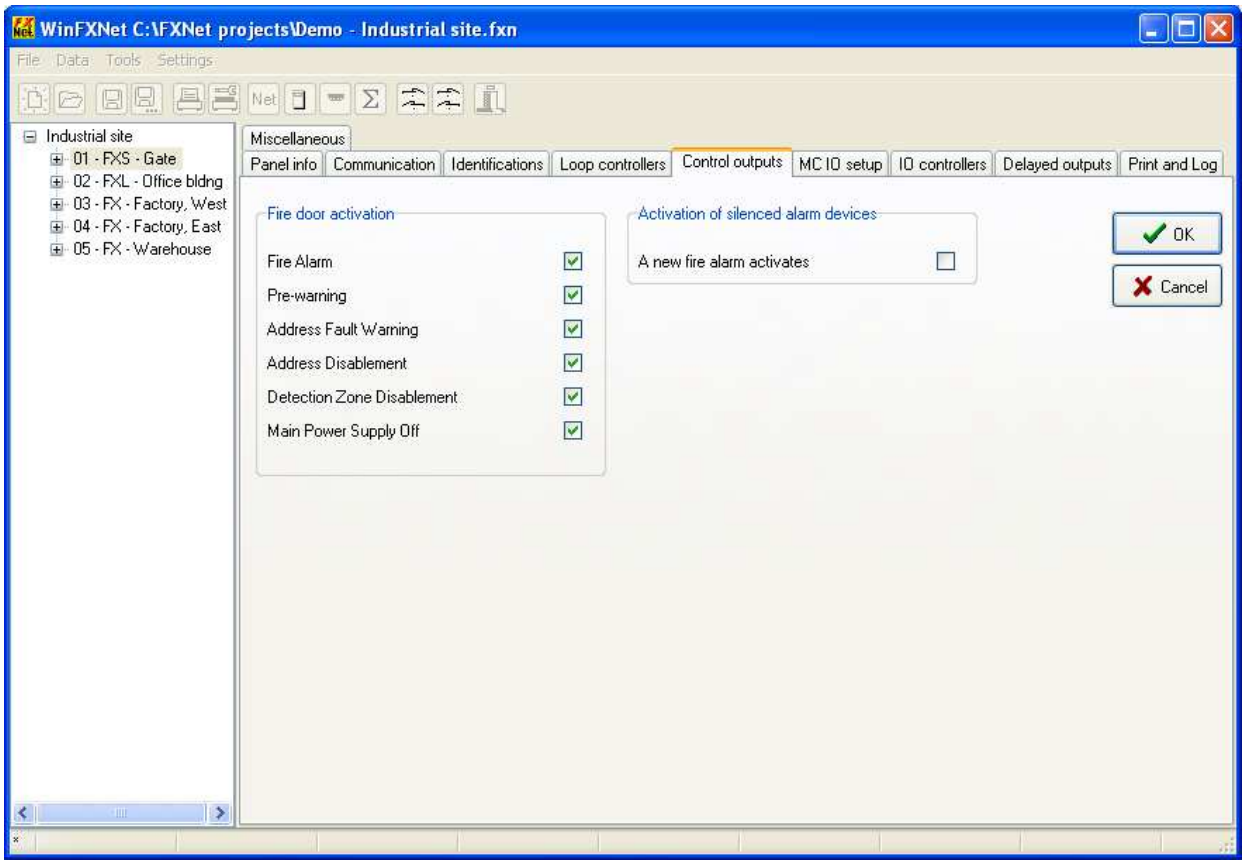
NOTE! The loop controllers have to be defined in order and the loop numbers (identifications) have to be consecutive.
It is an error to define overlapping loop identifications for two or more panels.

Field	Purpose
Type	Available options are ‘Not in use’, ‘LC System Sensor 2-loop’, 'CLC Conventional 16 Line', ALCB Intellia 2-loop', ALCA Intellia 1-loop and SLCB Advanced 2-loop.
First loop	The identification of the first loop. This can only be set for the first LC and is restricted to a value so that the last loop of the panel is at most 255.
Number of loops	This is automatically set depending on the type of LC
Last loop	This is automatically set based on the ‘First loop’ and ‘Number of loops’ fields

© 2011 Schneider Electric. All rights reserved.

Control Outputs page

On the Control outputs page you define which alarms and events in this panel affects fire door controls.



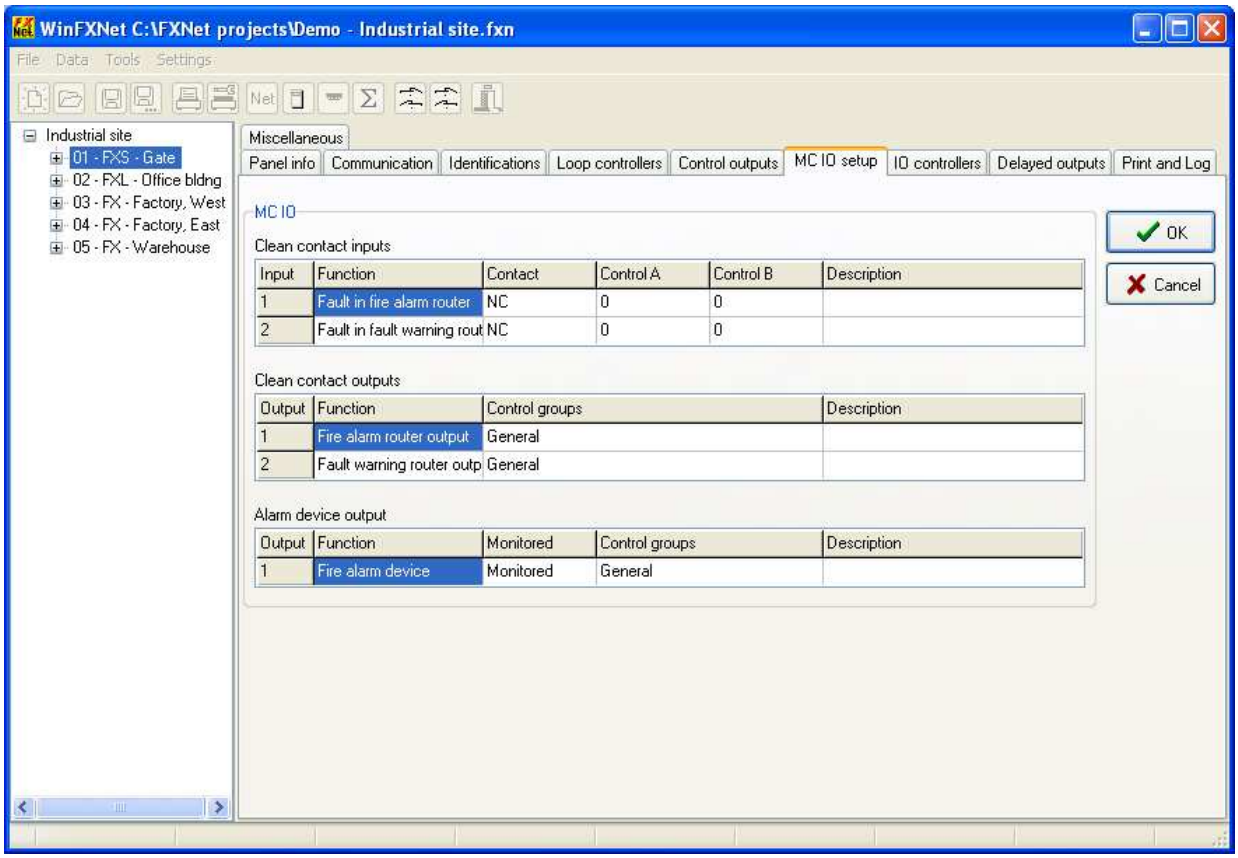
Fire door activation
Automatic fire doors, that are kept open by an electromagnet, should close when there is a fire alarm. In many applications it is also required that the fire doors should close if it can not be guaranteed that a fire will be detected, e.g. a detector is in fault condition or is disabled.
It may also be desired that the fire doors close on a main power supply failure, to preserve battery power if the door holding magnets are supplied by the FX panel.
Select with a check mark the events that should trigger a fire door control.

Activation of silenced alarm devices
Select whether or not a new fire alarm shall re-activate alarm devices that already have been silenced before.

© 2011 Schneider Electric. All rights reserved.

MCIO Setup page

On the 'MCIO Setup' page you define the function of input signals, relay outputs and alarm device outputs located on the MC board.


WinFXNet C:\FXNet projects\Demo - Industrial site.fxn
File Data Tools Settings
Industrial site
01 - FXS - Gate
02 - FXL - Office bldng
03 - FX - Factory, West
04 - FX - Factory, East
05 - FX - Warehouse
Miscellaneous
Panel info
Communication
Identifications
Loop controllers
Control outputs
MC IO setup
IO controllers
Delayed outputs
Print and Log
MC IO
OK
Cancel
Clean contact inputs
Input Function Contact Control A Control B Description
1 Fault in fire alarm router NC 0 0
2 Fault in fault warning rout NC 0 0
Clean contact outputs
Output Function Control groups Description
1 Fire alarm router output General
2 Fault warning router outp General
Alarm device output
Output Function Monitored Control groups Description
1 Fire alarm device Monitored General

The MC board has two clean contact inputs (monitoring of voltage free contacts).

Field	Purpose
Input	Identifies the input
Function	Defines the kind of event that will be triggered by the input when activated. See chapter 0 for a list of available options.
Contact	Defines the kind of contact, either Normally Open (NO) or Normally Closed (NC)
Control A	The first control group that the input will activate. See the FX Design Manual for a discussion on control groups and control functions.
Control B	The second control group that the input will activate. See the FX Design Manual for a discussion on control groups and control functions.
Description	Any text that describes the input.

The MC board has two clean contact outputs (relay outputs)

Field	Purpose
Output	Identifies the output
Function	Defines the kind of event that will trigger the output. See chapter 0 for a list of available options.
Control groups	The control groups that will activate this output. See the FX Design Manual for a discussion on control groups and control functions.
Description	Any text that describes the output.

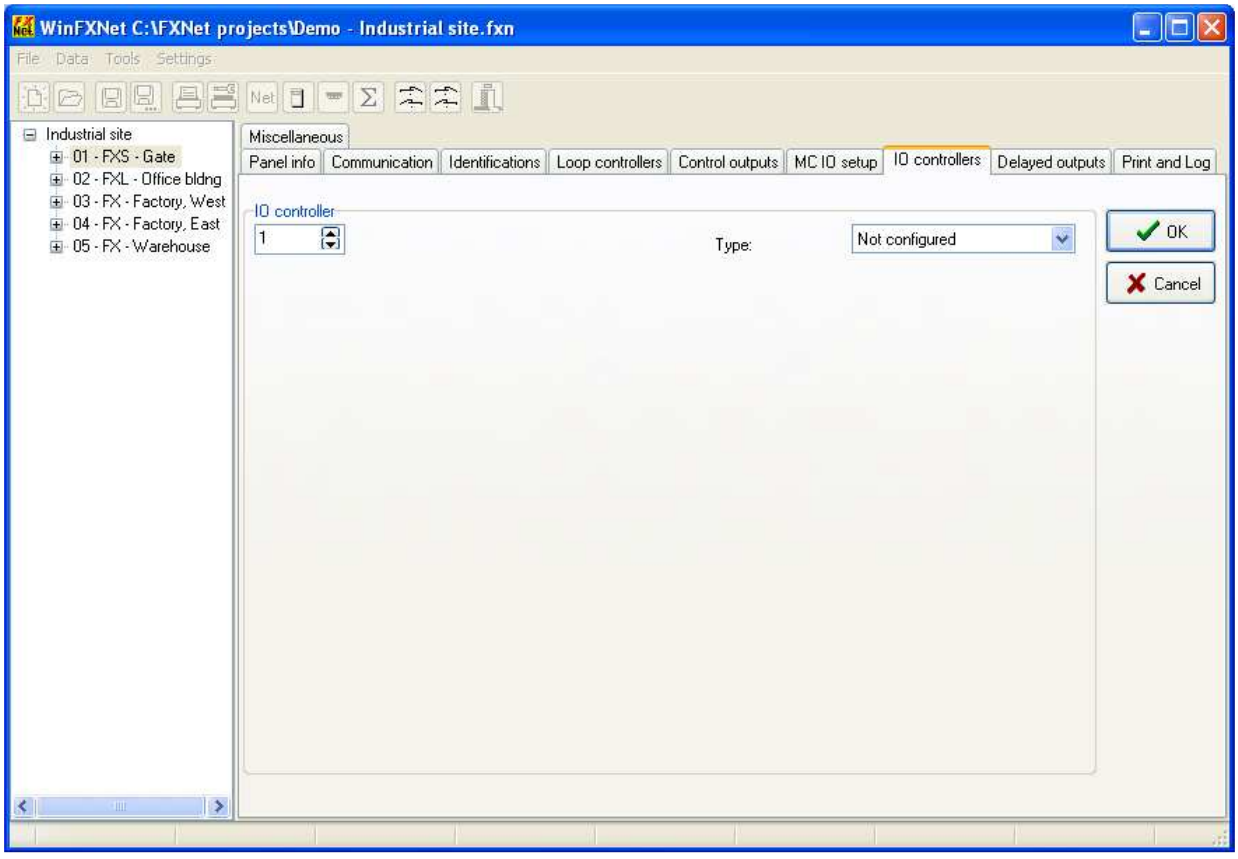
© 2011 Schneider Electric. All rights reserved.

The MC board has one output for alarm devices

Field	Purpose
Output	Identifies the output
Function	Defines the kind of event that will trigger the output. See chapter 0 for a list of available options.
Mode	Defines how the output control is controlled. Available options are 'Jumper defines', 'Continuous', 'Pulsed' and 'Phased evacuation'.
Monitored	Defines whether or not the output should be monitored for breaks or short circuits in the cable. It should generally be set to 'Monitored'.
Control groups	The control groups that will activate this output. See the FX Design Manual for a discussion on control groups and control functions.
Description	Any text that describes the output.

IO controllers page

On the IO Controllers page you define the IO Controllers. Up to 4 controllers can be defined.



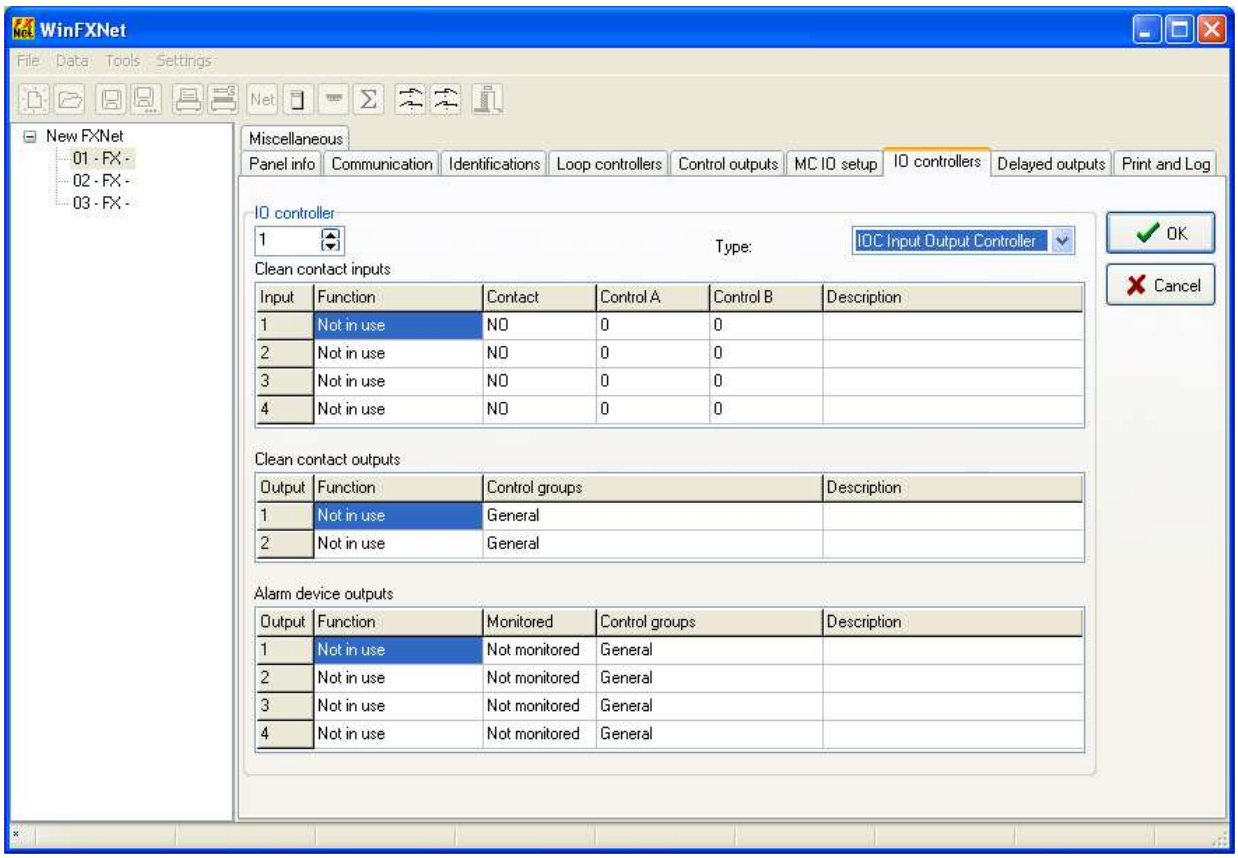
Field	Purpose
IO controller	Selects and identifies the controller board
Type	Defines the controller type. Available options are: 'Not configured', IOC Input and Output Controller' and 'OCA Relay Output Controller'

© 2011 Schneider Electric. All rights reserved.

IOC Input and Output Controller

For IO controller of type 'IOC Input and Output Controller' you define the function of input signals, relay outputs and alarm device outputs located on an IOC board.

Each IOC board has four Clean Contact Inputs, two Clean Contact Outputs and four Alarm Devices Outputs



The IOC board has four clean contact inputs (monitoring of voltage free contacts).

Field	Purpose
Input	Identifies the input
Function	Defines the kind of event that will be triggered by the input when activated. See chapter 0 for a list of available options.
Contact	Defines the kind of contact, either Normally Open (NO) or Normally Closed (NC)
Control A	The first control group that the input will activate. See the FX Design Manual for a discussion on control groups and control functions.
Control B	The second control group that the input will activate. See the FX Design Manual for a discussion on control groups and control functions.
Description	Any text that describes the input.

The IOC board has two clean contact outputs (relay outputs)

Field	Purpose
Output	Identifies the output
Function	Defines the kind of event that will trigger the output. See chapter 0 for a list of available options.
Control groups	The control groups that will activate this output. See the FX Design Manual for a discussion on control groups and control functions.
Description	Any text that describes the output.

© 2011 Schneider Electric. All rights reserved.

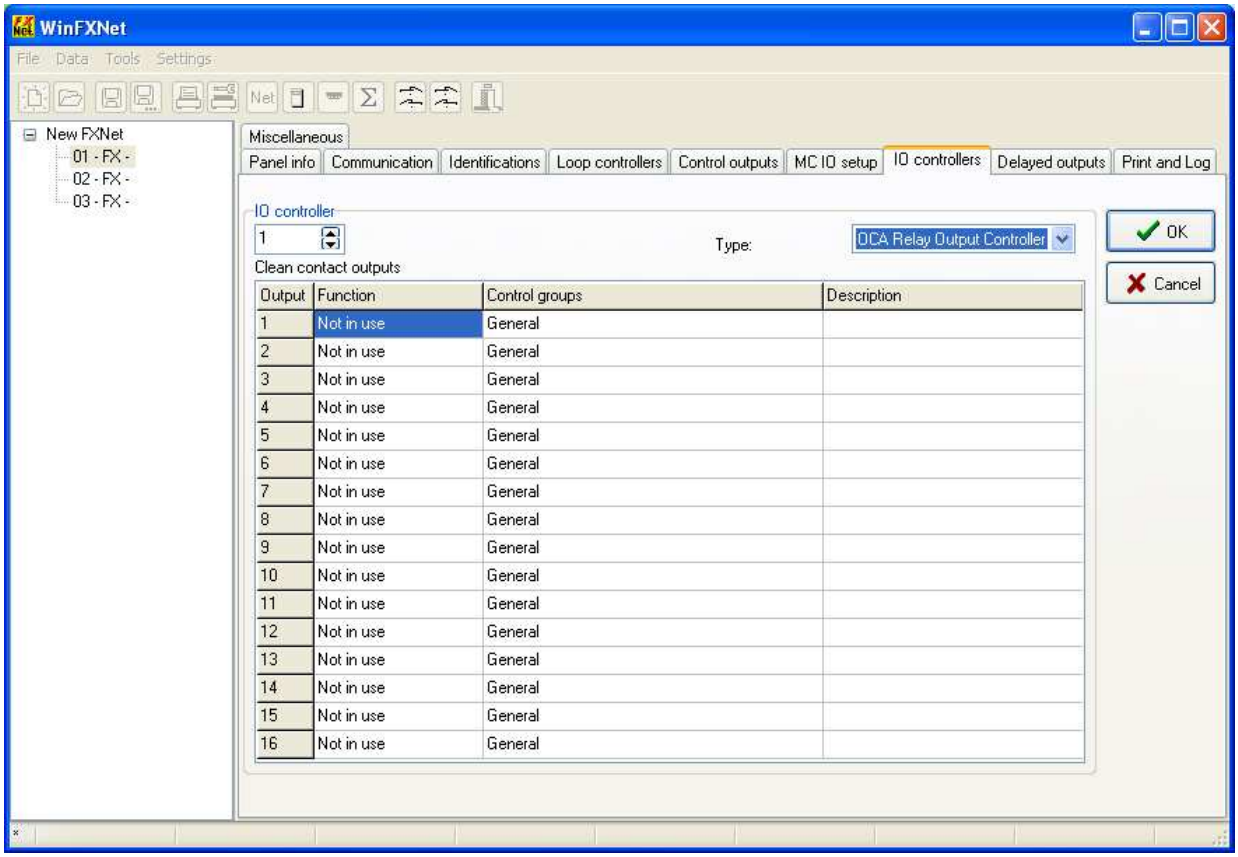
The IOC board has four outputs for alarm devices

Field	Purpose
Output	Identifies the output
Function	Defines the kind of event that will trigger the output. See chapter 0 for a list of available options.
Mode	Defines how the output control is controlled. Available options are 'Jumper defines', 'Continuous', 'Pulsed' and 'Phased evacuation'
Monitored	Defines whether or not the output should be monitored for breaks or short circuits in the cable. It should generally be set to ‘Monitored’.
Control groups	The control groups that will activate this output. See the FX Design Manual for a discussion on control groups and control functions.
Description	Any text that describes the output.

OCA Relay Output Controller

For IO controller of type 'OCA Relay Output Controller' you define the function of relay outputs located on an OCA board.

Each OCA board has sixteen Clean Contact Outputs.



The OCA board has sixteen clean contact outputs (relay outputs)

Field	Purpose
Output	Identifies the output
Function	Defines the kind of event that will be triggered by the input when activated. See chapter 0 for a list below for available options.
Control groups	The control groups that will activate this output. See the FX Design Manual for a discussion on control groups and control functions.
Description	Any text that describes the output.

© 2011 Schneider Electric. All rights reserved.

MC and IOC Clean Contact Input functions

'Not in use'	The input is not in use and has no effect
'Fault warning input'	Activates a fault warning condition
'Fault in fire alarm router'	Activates a fault warning condition indicating ‘Fault in fire alarm router’
'Fault in fault warning router'	Activates a fault warning condition indicating ‘Fault in fault warning router’
'Maintenance warning input'	Activates a maintenance warning indication
'Technical alarm input'	Activates a technical alarm indication, including the buzzer
'Silent technical alarm input'	Activates a technical alarm indication, excluding the buzzer
'Local Evacuation input'	Activates all fire alarm devices of this panel
'Evacuation input'	Activates all fire alarm devices of this panel and all visible panels
'Local Day Mode activation input'	Activates the day mode function for this panel
'Local Delayed Alarm enable input'	Activates the delayed alarm function for this panel
'Local Day Mode and Delayed Alarm enable'	Activates both day mode and delayed alarm for this panel
'Day Mode activation input'	Activates the day mode function for this panel and all visible panels
'Delayed Alarm enable input'	Activates the delayed alarm function for this panel and all visible panels
'Day Mode and Delayed Alarm enable'	Activates both day mode and delayed alarm for this panel and all visible panels
'Start delay T2 for delayed alarm'	Starts the delay time T2 in delayed alarm condition
'Delayed alarm reset input'	Resets the delayed alarm condition
'General Silence input'	Silences the currently highest priority alarm condition
'General Reset input'	Resets the currently highest priority alarm condition
'Local fire alarm device mute input'	Mutes (disables) temporarily fire alarm devices of this panel for the time of a Voice Evacuation message being announced
'Fire alarm device mute input'	Mutes (disables) temporarily fire alarm devices of all visible panels for the time of a Voice Evacuation message being announced
'Voice evacuation fault input'	Activates a fault warning condition indicating 'Fault in voice evacuation system'
'Extinguisher fault input'	Activates a fault warning condition indicating ‘Fault in extinguisher’
'Extinguisher activated input'	Activates the indication ‘Extinguisher activated’
'Smoke ventilation activated input'	Activates the indication ‘Smoke ventilation activated’
'Activation of customer LED 1'	Activates the auxiliary led marked as ‘Customer LED 1’
'Activation of customer LED 2'	Activates the auxiliary led marked as ‘Customer LED 2’
'Internal logic input'	Provides a signal to the built-in control logic
'External logic input'	Provides a signal to an external control logic

MC, IOC and OCA Clean Contact Output functions

'Not in use'	The output is not in use
'Fire alarm devices'	Is activated in fire alarm condition
'Fire alarm devices Non-Sil.'	Is activated in fire alarm condition, but is not deactivated at a press of the ‘Silence’ button. Use this option for e.g. beacons
'Fire alarm devices Lev.1 Sil.'	Is activated in fire alarm condition, and can be silenced with the 'Silence' button on access level 1.
'Fault warning devices'	Is activated by a fault warning condition
'Fire alarm output'	Is activated in fire alarm condition
'Voice evacuation activate output'	Is activated in fire alarm condition
'Voice evacuation test output'	Is activated by fire alarm when the panel is in test condition
'Fire alarm output'	Is activated in fire alarm condition
'Delayed fire alarm output'	Is activated when the panel is in a delayed fire alarm condition

© 2011 Schneider Electric. All rights reserved.

'Delayed fire alarm T2 output'	Is activated when timer T2 in the delayed alarm function is running
'Fire door output'	Is activated when any of the selected conditions for fire door control is active
'Extinguisher control output'	Is activated in fire alarm condition
'Fire alarm router output'	Is activated in fire alarm condition
'Fire alarm router LED output'	Is activated when the indicator 'Fire alarm router activated' in the panel is lit
'Fault warning router output'	Is activated in fault warning condition
'Prewarning output'	Is activated in Prewarning condition
'Fault warning output'	Is activated in fault warning condition
'Maintenance warning output'	Is activated in maintenance warning condition
'Technical alarm output'	Is activated in technical alarm condition
'General reset output'	Is activated for 30 seconds when a reset sequence (of any alarm type) is started
'Disablement output'	Is activated if anything in the panel is disabled
'Access level output'	Is activated when the panel is in access level 2
'Internal logic output'	Is activated by a command from the internal control logic
'External logic output'	Is activated by a command from the external control logic

MC and IOC Monitored Relay Output functions

These were previously called Alarm Device Outputs (ADO) but are renamed to Monitored Relay Outputs since version 3.4 of WinFXNet.

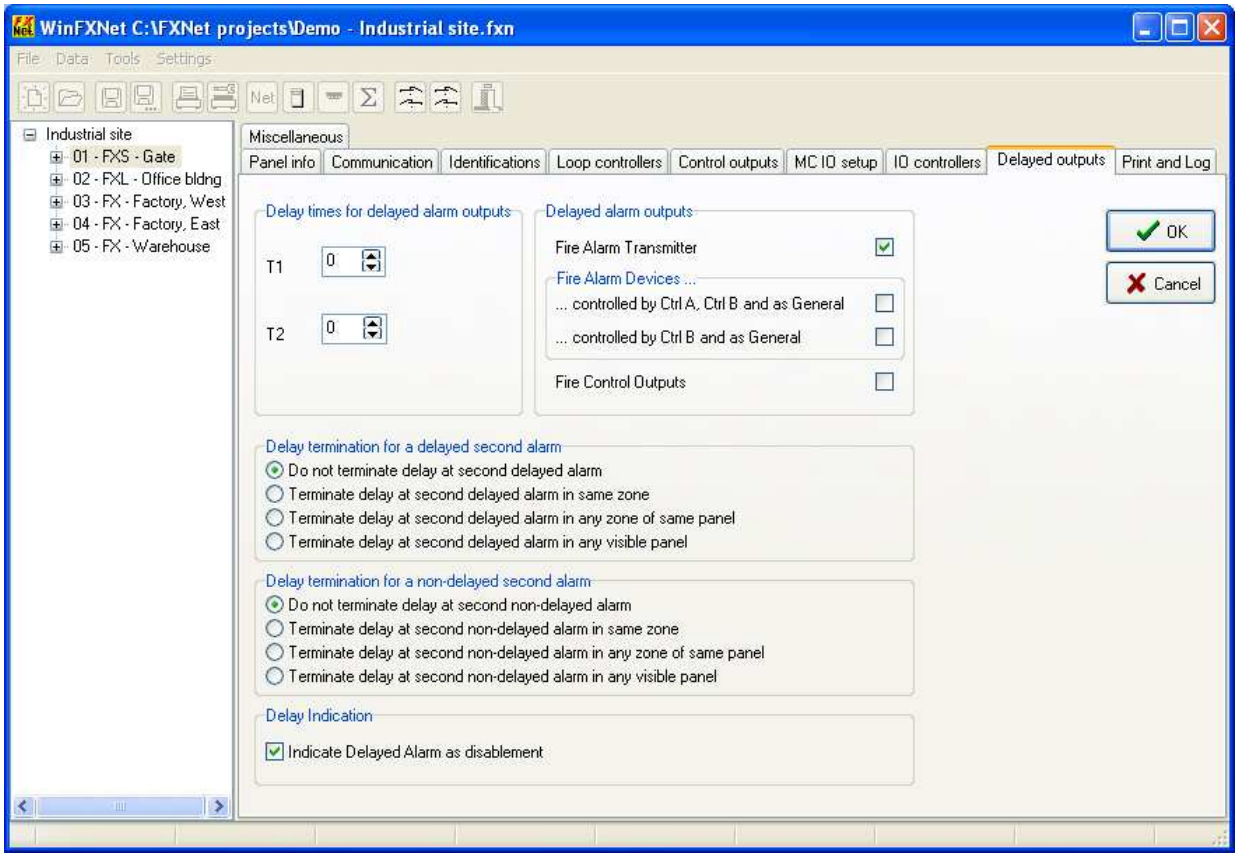
The selectable functions are the same as for Clean Contact Outputs.

Delayed outputs page

On the 'Delayed outputs' page you define the delay times, what control outputs to delay and termination of the delay as well as how the conditions should be displayed.

The term 'Delayed alarm' refers to an alarm from a detector for which its alarm mode is configured to be 'Delayed output'. The purpose is to give personnel at the site time to investigate whether the alarm condition is real and not a false alarm signal. If the personnel realize that the alarm condition is due to a false alarm signal, they can reset the panel before fire brigade is called to the site and / or bells and whistles are activated

© 2011 Schneider Electric. All rights reserved.


WinFXNet C:\FXNet projects\Demo - Industrial site.fxn
File Data Tools Settings
Industrial site
01 - FXS - Gate
02 - FXL - Office bldng
03 - FX - Factory, West
04 - FX - Factory, East
05 - FX - Warehouse
Miscellaneous
Panel info
Communication
Identifications
Loop controllers
Control outputs
MC IO setup
IO controllers
Delayed outputs
Print and Log
Delay times for delayed alarm outputs
T1
0
T2
0
Delayed alarm outputs
Fire Alarm Transmitter
Fire Alarm Devices ...
... controlled by Ctrl A, Ctrl B and as General
... controlled by Ctrl B and as General
Fire Control Outputs
OK
Cancel
Delay termination for a delayed second alarm
Do not terminate delay at second delayed alarm
Terminate delay at second delayed alarm in same zone
Terminate delay at second delayed alarm in any zone of same panel
Terminate delay at second delayed alarm in any visible panel
Delay termination for a non-delayed second alarm
Do not terminate delay at second non-delayed alarm
Terminate delay at second non-delayed alarm in same zone
Terminate delay at second non-delayed alarm in any zone of same panel
Terminate delay at second non-delayed alarm in any visible panel
Delay Indication
Indicate Delayed Alarm as disablement

In '**Delay times for delayed alarm outputs**' you define the two delay times involved in the function.
- T1 defines the 'reaction time' within which the operator must react to the alarm condition.
- T2 defines the investigation time within which the operator must investigate the cause of the alarm and reset the alarm if it is not a real fire.

T1 can be set in 10 second increments up to a maximum of 300 seconds (five minutes).
T2 can be set in 10 second increments up to a maximum of 600 seconds (ten minutes)
The sum of T1 and T2 can not exceed 600 seconds (ten minutes)

In '**Delayed alarm outputs**' you define which outputs are affected by the delay. There are three main items that can be delayed: Fire alarm transmitter, Fire alarm devices and Fire control outputs
The Fire alarm transmitter is usually connected to the fire brigade or an alarm receiving station and is the most obvious to delay, therefore it is selected as default.
For fire alarm devices there are two options: 'Controlled by Ctrl A, Ctrl B and as General', meaning effectively that all alarm devices are delayed, and 'Controlled by Ctrl B and as General', meaning effectively that alarm devices controlled by Ctrl A are not delayed, while all others are.
Fire control outputs includes all other control outputs that are activated by a fire alarm condition.

Delays can be terminated if the system recognizes another alarm signal (from another detector). Delay termination can be separately defined for situations
- where the second alarm is from a detector with alarm mode set to delayed output
- where the second alarm is from a detector with alarm mode not set to delayed output

In '**Delay termination for a delayed second alarm**' you define whether the delay should not be terminated or that it should be terminated by another delayed alarm initiated
- in the same zone as the first one
- in any zone of the same panel as the first one
- in any visible panel

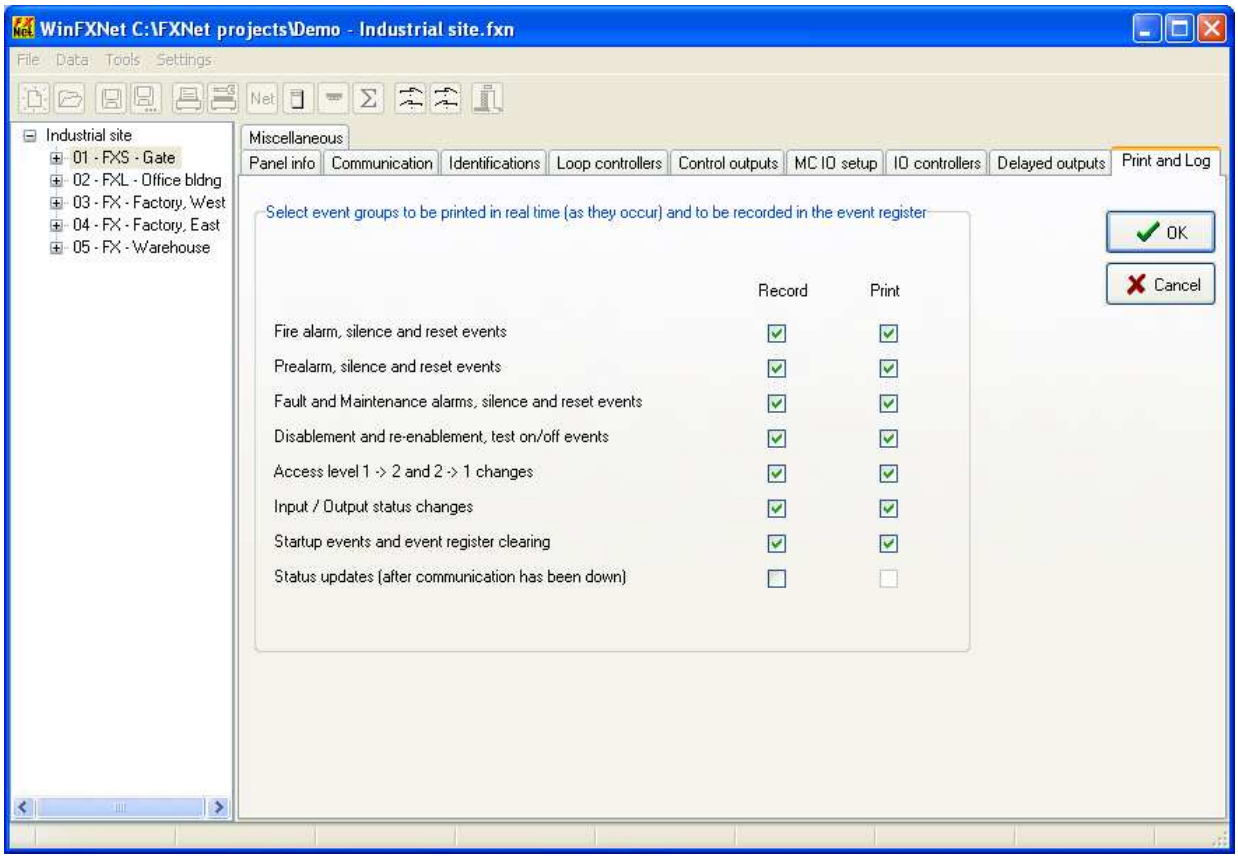
In '**Delay termination for a non-delayed second alarm**' you define whether the delay should not be terminated or that it should be terminated by a non-delayed alarm initiated
- in the same zone as the first one
- in any zone of the same panel as the first one
- in any visible panel

© 2011 Schneider Electric. All rights reserved.

In '**Delay indication**' you define whether or not the activation of the delayed alarm function should be displayed as a disablement or not. The EN54 standard requires that the delay function should be indicted as a 'Disablement of the immediate activation of outputs', but this may not be desirable in some applications. This requirement in the EN54 standard may be cancelled in the next publication.

Print and Log page

On the 'Print and log' page you define what events should be printed in real time (if a printer is connected) and what events should be recorded in the event log

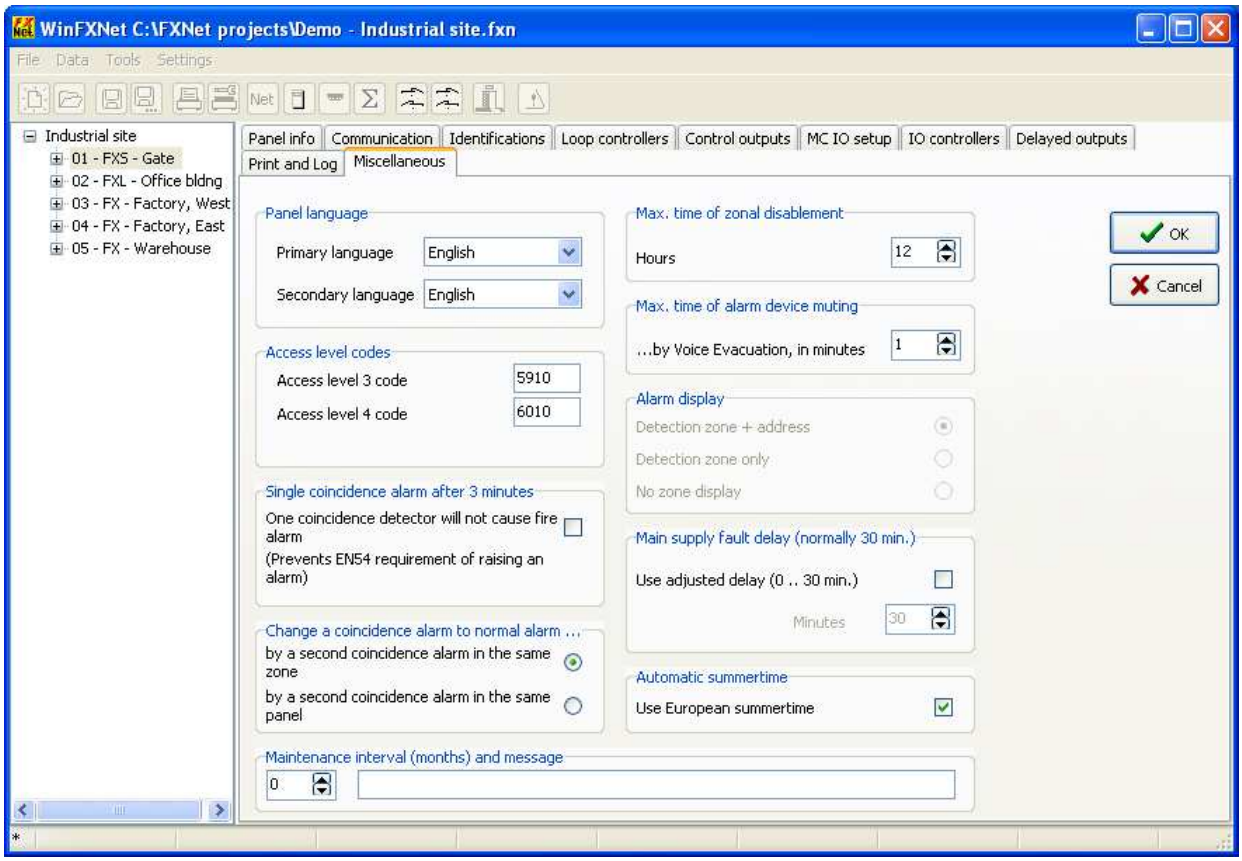

WinFXNet C:\FXNet projects\Demo - Industrial site.fxn
File Data Tools Settings
Industrial site
01 - FXS - Gate
02 - FXL - Office bldng
03 - FX - Factory, West
04 - FX - Factory, East
05 - FX - Warehouse
Miscellaneous
Panel info
Communication
Identifications
Loop controllers
Control outputs
MC IO setup
IO controllers
Delayed outputs
Print and Log
Select event groups to be printed in real time (as they occur) and to be recorded in the event register
OK
Cancel
Record
Print
Fire alarm, silence and reset events
Prealarm, silence and reset events
Fault and Maintenance alarms, silence and reset events
Disablement and re-enablement, test on/off events
Access level 1 -> 2 and 2 -> 1 changes
Input / Output status changes
Startup events and event register clearing
Status updates (after communication has been down)

Note that an event group has to be marked for logging to be able to select it for printing

© 2011 Schneider Electric. All rights reserved.

Miscellaneous page

On the ‘Miscellaneous’ page you define the language to display, service codes, maximum time of zone disablement, whether to use daylight saving time (summer time) and how to display the alarms.



The ‘**Primary language**’ and ‘**Secondary language**’ define which languages should be used by the panel. If the selection is different for these two, the operator may switch between the languages via the menu. If the selections are the same, then the language switching menu item is not displayed in the panel. Separately from this language switching, the panel menu enables to select any of the built-in languages, but this selection reverts to the configured primary language if the panel is restarted.

In the ‘**Access level codes**’ field you can define the password code for
- access level three, which enables setting the panel in configuration mode and some maintenance information to be displayed
- access level four, which enables resetting the alarm counter

In the '**Single coincidence alarm after 3 minutes**' field you can choose what should happen if a single coincidence detector is constantly in alarm for longer than three minutes. The EN54 standard requires that a normal alarm condition is raised, and that is the default function of the FXNet panel since September 2009. If, for some reason, a constant coincidence prewarning should not raise a normal fire alarm condition after three minutes, you can checkmark this option.

In the '**Change a coincidence alarm to normal alarm**' field you can select when the prewarning indicated by an alarm from a detector set with 'Coincidence' shall be changed into a normal fire alarm. Available options are by a second coincidence alarm in the same **zone** or the same **panel**.

In the ‘**Max. time of zone disablement**’ field you define for how long a zone disablement, activated by an addressable monitor module configured as ‘Zone disablement, at most should be active. This definition is a safety precaution for an eventual failure of the device connected to the monitor module. If this time elapses a fault indication will be shown on the panel and the zone will be re-enabled.

In the '**Max. time of alarm device muting**' field you define for how long muting of alarm devices at most can be activated. This definition is a safety precaution for an eventual failure of the Voice Evacuation system that

© 2011 Schneider Electric. All rights reserved.

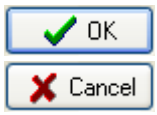
controls muting of alarm devices. If time elapses a fault indication will be shown on the panel and the muting of alarm devices will be cancelled.

The '**Alarm display**' field is disabled by default and the alarm display setting is 'Detection zone + address'. 'Detection zone only' is a reservation for future and is permanently disabled. Selection of 'No zone display' can be activated from main menu item 'Settings - Special settings' by entering a password. Please ask technical support for the password if you think you need it.

In the '**Main supply fault delay**' field you can change the default delay time for the fault indication of a mains fault. The EN54 standard allows a delay of 30 minutes to prevent unnecessary fault alarms for short power outages.

In the '**Automatic summertime**' field you can select whether or not automatic summertime shall be used by the panel. Currently only the European summertime scheme is selectable.

In the '**Maintenance interval and message**' field you can define how often (in months) the panel should indicate a maintenance warning, and the message that the panel will display in this warning. 0 means no indication and other valid values are 1 ... 36 months. The message can be up to 60 characters long.



Press the OK button to keep any changes you have made to the General Panel Data.

Press the Cancel button to cancel any changes you have made.

© 2011 Schneider Electric. All rights reserved.

Address and Text data

There are four main types of loop controller boards for the FXNet panels: ALC, SLC, LC and CLC. They are available in following versions and provide address capacities as follows:

Type	Number of loops	Address ranges	Device families	Notes
ALCA	1	001 ... 126	Intellia Discovery XP95 S60	(note1) (note1) (note1)
ALCB	2	001 ... 126		
SLCB	2	001 ... 159 201 ... 359	Advanced series 200 series	(note2)
LC	2	001 ... 099 101 ... 199	200 series	(note2)
CLC	(1)	001 ... 016	Conventional detectors and manual call points	(note3)

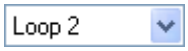
Note1. Configuration may be restricted by licensing policy.
Note2. The same addresses in the low range and the high range (e.g. 005 and 205) can not be both detectors or both IO modules.
Note3. The CLC loop is a logical (not real) loop. The 1 ... 16 addresses are the actual detection circuits, to which the detectors and manual call points are connected.

There are more information regarding limitations of number of devices totally per panel and per loop in the FXNet Planning Instructions.

Select **'Data' – 'Address and Text Data'** from the menu or press the button on the tool bar to open the 'Address and Text Data' form.

The address table shows the addresses of one loop at a time. The height of the table and the available columns changes according to the type of the selected loop.

The controls above the address table are:

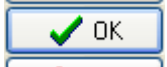


Loop selection control. All changes you make to a loop will be preserved in temporary memory when you switch from one loop to another.

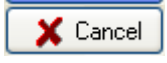
To reset column widths. Note that this does not change non-visible columns to visible

To select the visible columns. Column selection is not possible for the CLC table

To fill in or to change settings for a range of addresses in a loop.



To accept the changes made and to close the address data table



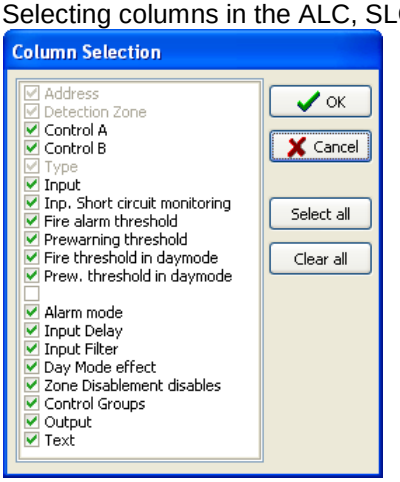
To cancel all changes made and to close the address data table

© 2011 Schneider Electric. All rights reserved.

Address table columns

The table is different depending on the type of loop controller (ALC, SLC, LC or CLC) that handles the selected loop. The setup of the table changes with the loop type when you change the loop.
The ‘Address and Text Data’ window is initially opened in a contracted format with the most important columns visible. The visible fields allow you to change the zone assignment, the physical type and the text of an address. The ALC, SLC and LC address tables show also the columns for Input function and Output function by default

Selecting columns in the ALC, SLC and the LC address tables



Press OK to accept the current selection

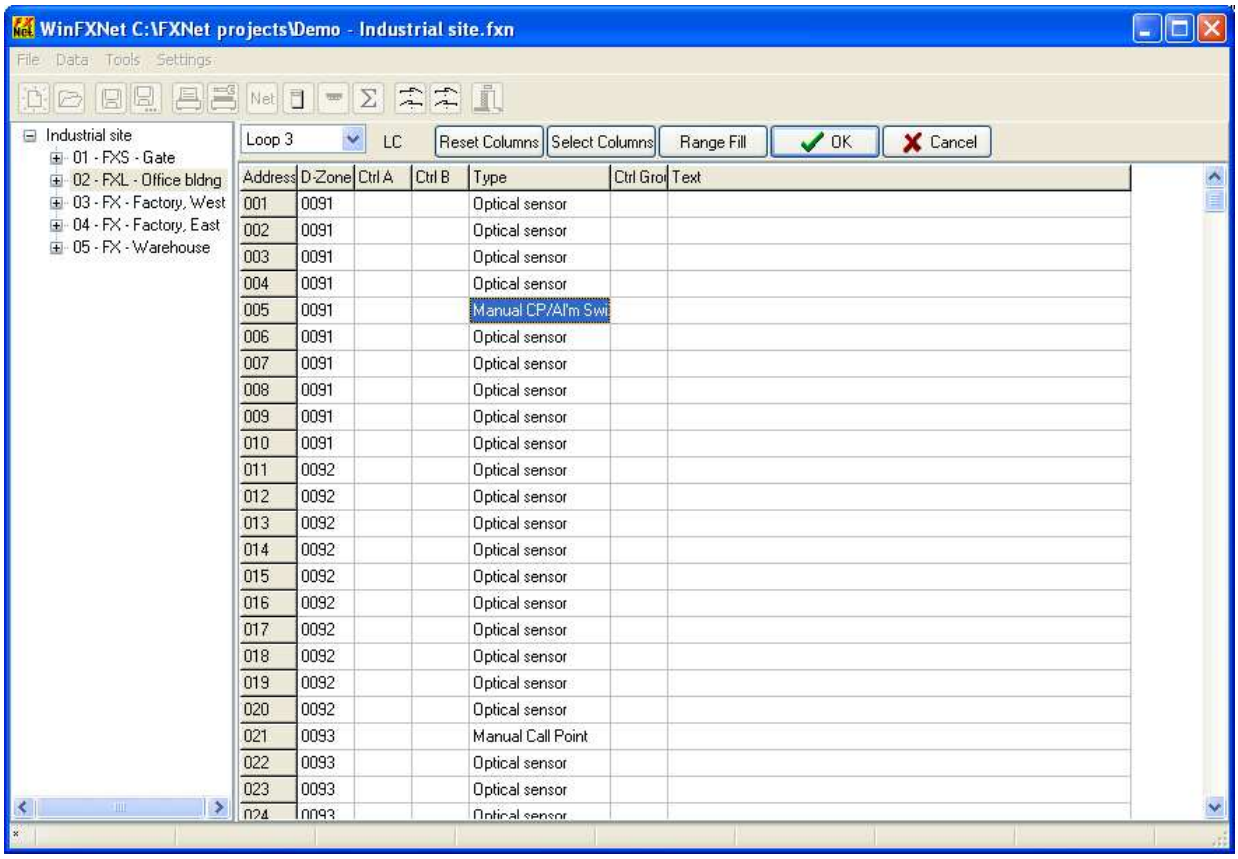
Press Cancel to cancel the changes

Press Select All to select all columns

Press Clear All to deselect all columns.
Note! 'Address', 'Detection Zone' and 'Type' can not be deselected.
Note! 'Inp. Short circuit monitoring' can be selected only for SLC address tables.

© 2011 Schneider Electric. All rights reserved.

ALC, SLC and LC loops: Address table

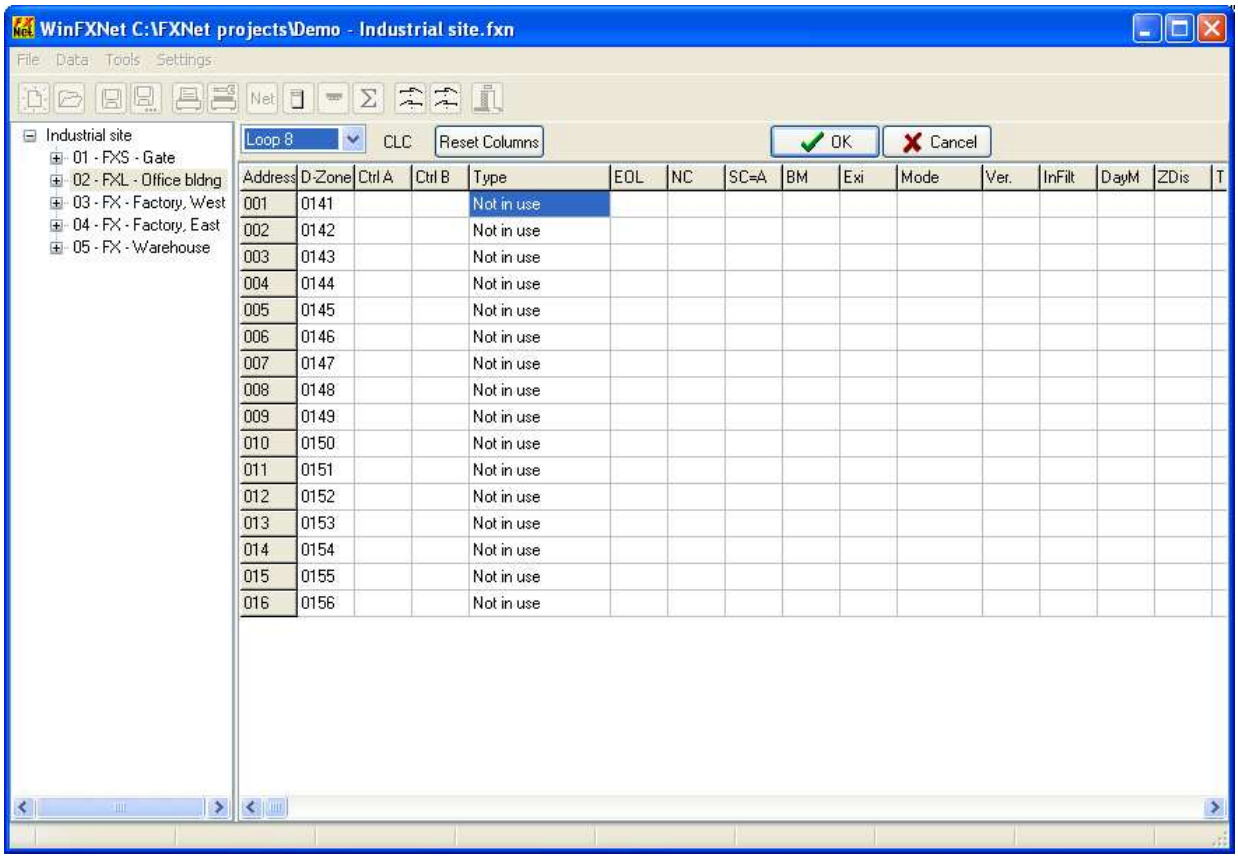

WinFXNet C:\FXNet projects\Demo - Industrial site.fxn
File Data Tools Settings
Industrial site
01 - FXS - Gate
02 - FXL - Office bldng
03 - FX - Factory, West
04 - FX - Factory, East
05 - FX - Warehouse
Loop 3
LC
Reset Columns
Select Columns
Range Fill
OK
Cancel
Address D-Zone Ctrl A Ctrl B Type Ctrl Grou Text
001 0091 Optical sensor
002 0091 Optical sensor
003 0091 Optical sensor
004 0091 Optical sensor
005 0091 Manual CP/Alm Swi
006 0091 Optical sensor
007 0091 Optical sensor
008 0091 Optical sensor
009 0091 Optical sensor
010 0091 Optical sensor
011 0092 Optical sensor
012 0092 Optical sensor
013 0092 Optical sensor
014 0092 Optical sensor
015 0092 Optical sensor
016 0092 Optical sensor
017 0092 Optical sensor
018 0092 Optical sensor
019 0092 Optical sensor
020 0092 Optical sensor
021 0093 Manual Call Point
022 0093 Optical sensor
023 0093 Optical sensor
024 0093 Optical sensor

The column headers are abbreviated to conserve space and have the following meanings:

Address	The address of a device connected to the loop
D-Zone	Detection zone. All addresses must belong to one, and only one, detection zone. The range of available detection zones for the panel is defined in the general panel data – identifications section.
Ctrl A	Control A. The first control group to be activated by an event in this address
Ctrl B	Control B. The second control group to be activated by an event in this address
Type	The type of the device
Input funct.	To define which function to activate for switch monitors and IO modules.
ScMon	Short circuit monitoring of input modules. Note! Only for SLC loop input modules.
Fire	Fire alarm threshold
Prew	Prewarning threshold
D-Fire	Daytime Fire alarm threshold
D-Prew	Daytime Prewarning threshold
Mode	Alarm mode, or sounder mode for alarm device outputs
InDel	Input delay
InFilt	Input filter
DayM	Day mode effect on the address
ZDis	Whether or not the address will be disabled by a zone disablement
Ctrl Groups	Control groups that will affect the output of the address
Output funct.	To define which function the output of the address has.
Text	The text that is associated with the address and displayed in the different alarm conditions as well as when scrolling through the addresses

© 2011 Schneider Electric. All rights reserved.

CLC loops: Address table


WinFXNet C:\FXNet projects\Demo - Industrial site.fxn
File Data Tools Settings
Industrial site
01 - FXS - Gate
02 - FXL - Office bldng
03 - FX - Factory, West
04 - FX - Factory, East
05 - FX - Warehouse
Loop 8
CLC
Reset Columns
OK
Cancel
Address D-Zone Ctrl A Ctrl B Type EOL NC SC=A BM Exi Mode Ver. InFilt DayM ZDis T
001 0141 Not in use
002 0142 Not in use
003 0143 Not in use
004 0144 Not in use
005 0145 Not in use
006 0146 Not in use
007 0147 Not in use
008 0148 Not in use
009 0149 Not in use
010 0150 Not in use
011 0151 Not in use
012 0152 Not in use
013 0153 Not in use
014 0154 Not in use
015 0155 Not in use
016 0156 Not in use

Column	Comments
Address	Conventional line. Values 1 .. 16, denotes the conventional line (or loop)
D-Zone	Detection zone. All conventional lines must belong to one, and only one, detection zone. The range of available detection zones for the panel is defined in the general panel data – identifications section
Ctrl A	Control A. The first control group to be activated by an event in this address
Ctrl B	Control B. The second control group to be activated by an event in this address
Type	Values: Not in use, Conventional line
EOL	EOL resistor, values: 4k7, 2k7
NC	Normally closed circuit, values: No, Yes
SC-A	Short Circuit is alarm, values: No, Yes
BM	Break monitored, values: No, Yes
Exi	Ex area, values: No, Yes
Mode	Alarm mode
Ver.	Alarm verification, values: No, Yes
InFilt	Input filter, default is 2
DayM	Values: No effect, Disabled
ZDis	Whether or not the conventional line will be disabled by a zone disablement
Text	The text that is associated with the conventional line and displayed in the different alarm conditions as well as when scrolling through the addresses

© 2011 Schneider Electric. All rights reserved.

Changing the detection zone

The D-Zone column shows the zone to which the address is assigned. The default zone numbers are depending on the entries for 'First Zone' and 'Last Zone' (see 0).
To change the zone assignment, simply type in a new number in the field. A number which is not in the range First Zone ... Last Zone will not be accepted when you press the OK button to exit the window.

Type selection

When you **right-click** with the mouse in the Type column, a menu of available types is displayed. You can select a type with the mouse pointer and a left-click, or you can select the type by typing the short-cut key. You can also use the short-cut keys even if the menu is not visible.

Some menu entries have submenus. In this case the short-cut keys are used in succession: first to select the main type and then to select the subtype.
For example, to specify a manual call point in a LC loop, you would press 5 and 1.

ALC loops: Device types

Device type popup menu	Comments
0 – Not in use	
1 – Ionisation sensor	
2 – Optical sensor	
3 – Thermal sensor	
4 – High temperature sensor	
5 – Multicriteria	
6 – CO sensor	
7 – Beam detector	
8 – Flame detector	
9 – Any Type	Some device has to be installed.
O – Any Type (virtual)	Nothing has to be installed. Can be set in alarm condition only through alarm test or through the INFO communication protocol.
A – Conventional Zone Module	
B – Manual call point	
C – Switch mon. w. Interrupt	
D – Switch monitor	
J – IO module	
L – Addressable sounder	
M – Sounder controller module	
N – Beacon	

Note! Some items have a protocol selection submenu if your license file allows this.

ALC loops: Conventional zone module input functions

Conventional zone module input functions	Comments
0 – Conventional Zone	
1 – Conventional beam detector	

ALC loops: Input functions

Input function popup menu	Action on activation
0 – Not In Use	None
1 – Manual Call Point	Fire alarm
2 – Reserved	
3 – Conv. Heat Detector	Fire alarm
4 – Fire Alarm Input	Fire alarm
5 – Prealarm Input	Prewarning
6 – Fault warning Input	Fault warning

© 2011 Schneider Electric. All rights reserved.

7 – Maintenance Input	Maintenance warning
8 – Technical Alarm Input	Technical alarm
9 – Silent Tech Alarm Input	Technical alarm
Q – Local Evacuation Input	Activates all alarm devices of this panel
A – Evacuation Input	Activates all alarm devices of all visible panels
B – Zone Disablement Input	Disables the zone to which the module is configured
R – Local Day Mode Activation Input	Sets this panel in day mode
S – Local Delayed Alarm Enable Input	Enables the delayed alarm function of this panel
T – Local Day Mode and Delayed Alarm Enable Input	Sets this panel in day mode and enables the delayed alarm function
C – Day Mode Activation Input	Sets all visible panels in day mode
D – Delayed Alarm Enable Input	Enables the delayed alarm function of all visible panels
E – Day Mode and Delayed Alarm Enable Input	Sets all visible panels in day mode and enables the delayed alarm function
F – Delayed Alarm Zonal Silence	Silences a delayed alarm in the same zone as the monitor module
G – Delayed Alarm Zonal Reset	Resets a delayed alarm in the same zone as the monitor module
H – General Silence Input	Silences the alarm condition of all visible panels
I – General Reset Input	Resets the alarm condition of all visible panels
U – Local Fire Alarm Devices Mute Input	Mutes alarm devices of this panel for the time a Voice evacuation message is announced
V – Fire Alarm Devices Mute Input	Mutes alarm devices of all visible panels for the time a Voice evacuation message is announced
W – Voice Evacuation Fault Input	Activates a fault condition with the indication 'Voice Evacuation Fault'
J – Extinguisher Fault Input	Activates a fault condition with the indication ‘Extinguisher Fault’
K – Extinguisher Activated Input	Lights up the ‘Extinguisher Activated’ indicator
L – Smoke ventilation Activated Input	Lights up the ‘Smoke ventilation Activated’ indicator
M – Customer LED 1 Activation	Lights up the ‘Customer LED 1’ indicator
N – Customer LED 2 Activation	Lights up the ‘Customer LED 2’ indicator
O – Internal Logic Input	Signals the internal control logic of the activation
P – External Logic Input	Signals an external control logic of the activation

ALC loops: Output functions

Output function popup menu	**Activated ...**
0 – Not in use	
1 – Fire Alarm Devices	if fire alarm condition is active and alarm devices are not disabled nor silenced (at access level 2)
2 – Fire Alarm Devices Non-Silenceable	if fire alarm condition is active and alarm devices are not disabled
J – Fire Alarm Devices, Level 1 Silenceable	if fire alarm condition is active and alarm devices are not disabled nor silenced (at access level 1 or access level 2)
3 – Fault Warning Alarm Devices	if fault warning condition is active and alarm devices are not disabled nor silenced
H – Voice Evacuation Activate Output	if fire alarm condition is active
I – Voice Evacuation Test Output	if fire alarm is initiated in test condition
4 – Fire Alarm Output	if fire alarm condition is active
5 – Prewarning Output	if prewarning condition is active
6 – Fault Warning Output	if fault warning condition is active
7 – Maintenance Warning Output	if maintenance warning condition is active
K - General Reset Output	for 30 sec. when any alarm condition is reset
8 – Fire Door Output	if any of the conditions set in ‘General panel data’ – ‘Control outputs’ – ‘Fire door control’ is active
9 – Extinguisher Output	if fire alarm condition is active
A – Disablement Output	if anything is disabled in the panel
B – Access Level Output	if the key is turned to the operating position
C – Technical Alarm Output	if technical alarm

© 2011 Schneider Electric. All rights reserved.

D – Internal Logic Output	by command from the internal control logic
E – External Logic Output	by command from an external control logic
F – Delayed Fire Alarm Output	if delayed fire alarm condition is active
G – Fire Alarm Transmitter Activated LED Output	If the 'Fire Alarm Transmitter Activated' LED is lit

SLC loops: Device types

Device type popup menu	Sub menu items	Comments
0 – Not in use		
1 – Ionization sensor	1 - 200 series	
2 – Optical sensor	0 - Advanced series 1 - 200 series	
3 – Static thermal sensor	0 - Advanced series 1 - 200 series	
G – ROR thermal sensor	0 - Advanced series 1 - 200 series	
H – High temp. thermal sensor	0 - Advanced series 1 - 200 series	
9 – Laser LZR-1	1 - 200 series	
A – Laser 7251	1 - 200 series	
B – Multicriteria	0 - Advanced series 1 - 200 series	
D – Three criteria sensor	0 - Advanced series 1 - 200 series	
E – Four criteria sensor	0 - Advanced series 1 - 200 series	
F – Beam sensor	1 - 200 series	
I - Manual Call Point indoor		
J - Manual Call Point outdoor		
5 - Single Input module	0 - Advanced series 1 - 200 series	
K - Single Input micro module		
L - Dual Input module		
M - Dual Input, Single Output module		
6 - Single Output module	0 - Advanced series 1 - 200 series	
N - Single Output 240V module		
7 - Conventional Zone module	0 - Advanced series 1 - 200 series	
X - Conv. Zone module CZR		
S - Wall Mount Sounder		
T - Wall Mount Sounder Strobe		
U - Wall Mount Strobe		
V - Detector Base Sounder		
W - Detector Base Sounder Strobe		
C - Any Type (virtual)		Nothing has to be installed. Can be set in alarm condition only through alarm test or through the INFO communication protocol.
8 - Any Type		Some device has to be installed.

SLC loops: Conventional zone module input functions

Conventional zone module input functions	Comments
0 – Conventional Zone	
1 – Conventional beam detector	

© 2011 Schneider Electric. All rights reserved.

SLC loops: Input functions

Input function popup menu	Action on activation
0 – Not In Use	None
1 – Manual Call Point	Fire alarm
2 – Reserved	
3 – Conv. Heat Detector	Fire alarm
4 – Fire Alarm Input	Fire alarm
5 – Prealarm Input	Prewarning
6 – Fault warning Input	Fault warning
7 – Maintenance Input	Maintenance warning
8 – Technical Alarm Input	Technical alarm
9 – Silent Tech Alarm Input	Technical alarm
Q – Local Evacuation Input	Activates all alarm devices of this panel
A – Evacuation Input	Activates all alarm devices of all visible panels
B – Zone Disablement Input	Disables the zone to which the module is configured
R – Local Day Mode Activation Input	Sets this panel in day mode
S – Local Delayed Alarm Enable Input	Enables the delayed alarm function of this panel
T – Local Day Mode and Delayed Alarm Enable Input	Sets this panel in day mode and enables the delayed alarm function
C – Day Mode Activation Input	Sets all visible panels in day mode
D – Delayed Alarm Enable Input	Enables the delayed alarm function of all visible panels
E – Day Mode and Delayed Alarm Enable Input	Sets all visible panels in day mode and enables the delayed alarm function
F – Delayed Alarm Zonal Silence	Silences a delayed alarm in the same zone as the monitor module
G – Delayed Alarm Zonal Reset	Resets a delayed alarm in the same zone as the monitor module
H – General Silence Input	Silences the alarm condition of all visible panels
I – General Reset Input	Resets the alarm condition of all visible panels
U – Local Fire Alarm Devices Mute Input	Mutes alarm devices of this panel for the time a Voice evacuation message is announced
V – Fire Alarm Devices Mute Input	Mutes alarm devices of all visible panels for the time a Voice evacuation message is announced
W – Voice Evacuation Fault Input	Activates a fault condition with the indication 'Voice Evacuation Fault'
J – Extinguisher Fault Input	Activates a fault condition with the indication ‘Extinguisher Fault’
K – Extinguisher Activated Input	Lights up the ‘Extinguisher Activated’ indicator
L – Smoke ventilation Activated Input	Lights up the ‘Smoke ventilation Activated’ indicator
M – Customer LED 1 Activation	Lights up the ‘Customer LED 1’ indicator
N – Customer LED 2 Activation	Lights up the ‘Customer LED 2’ indicator
O – Internal Logic Input	Signals the internal control logic of the activation
P – External Logic Input	Signals an external control logic of the activation

SLC loops: Output functions

Output function popup menu	Activated ...
0 – Not in use	
1 – Fire Alarm Devices	if fire alarm condition is active and alarm devices are not disabled nor silenced (at access level 2)
2 – Fire Alarm Devices Non-Silenceable	if fire alarm condition is active and alarm devices are not disabled
J – Fire Alarm Devices, Level 1 Silenceable	if fire alarm condition is active and alarm devices are not disabled nor silenced (at access level 1 or access level 2)
3 – Fault Warning Alarm Devices	if fault warning condition is active and alarm

© 2011 Schneider Electric. All rights reserved.

	devices are not disabled nor silenced
H – Voice Evacuation Activate Output	if fire alarm condition is active
I – Voice Evacuation Test Output	if fire alarm is initiated in test condition
4 – Fire Alarm Output	if fire alarm condition is active
5 – Prewarning Output	if prewarning condition is active
6 – Fault Warning Output	if fault warning condition is active
7 – Maintenance Warning Output	if maintenance warning condition is active
K - General Reset Output	for 30 sec. when any alarm condition is reset
8 – Fire Door Output	if any of the conditions set in 'General panel data' – 'Control outputs' – 'Fire door control' is active
9 – Extinguisher Output	if fire alarm condition is active
A – Disablement Output	if anything is disabled in the panel
B – Access Level Output	if the key is turned to the operating position
C – Technical Alarm Output	if technical alarm
D – Internal Logic Output	by command from the internal control logic
E – External Logic Output	by command from an external control logic
F – Delayed Fire Alarm Output	if delayed fire alarm condition is active
G – Fire Alarm Transmitter Activated LED Output	If the 'Fire Alarm Transmitter Activated' LED is lit

LC loops: Device types

Selection	Actual type	Comment
0 – None		
1 – Analog ion	1251E, 1551E	
2 – Analog opt	2251E, 2551E	
3 – Analog heat	5251EM, 5251REM and 5251HTEM	
4 – OMNI	3251E	
9 – Laser LZR-1	LZR – 1E	
A – Laser 7251	7251	
B – Multisensor	2251TEM	
D – Three criteria sensor	PTIR	
E – Four criteria sensor	COPTIR	
F – Beam sensor	6200, 6500	
5 – Monitor Module	M210ME, M220ME, M221ME	See functional types below
6 – Control Module	M201ME, M221ME	See functional types below
7 – Conventional Zone Module	M512ME, M210CZ	See functional types below
8 – Any Type	Any of the above	
C – Any Type (virtual)	Nothing has to be installed. Can be set in alarm condition only through alarm test or through the INFO communication protocol	

Note! The items '9 – Laser LZR-1' and 'Laser – 7251' are enabled only if allowed by your license file.

LC loops: Conventional zone module input functions

Selection	Used when ...
0 – Conventional Zone	a conventional zone is connected to the M512ME
1 – Beam Detector	a conventional beam detector is connected to the M512ME

NOTE! There's no difference in the operation of the address for these selections, except the text displayed in the LCD of the panel when looking at address data.

© 2011 Schneider Electric. All rights reserved.

LC loops: Monitor module input functions

Selection	Action on activation
0 – Manual Call Point / Al'm Switch	Fire alarm
1 – Manual Call Point	Fire alarm
2 – Beam Detector (See Note below)	Fire alarm
3 – Conv. Heat Detector	Fire alarm
4 – Fire Alarm Input	Fire alarm
5 – Prewarning Input	Prewarning
6 – Fault Warning Input	Fault warning
7 – Maintenance Input	Maintenance warning
8 – Technical Alarm Input	Technical alarm
9 – Silent Tech Alarm Input	Technical alarm
Q – Local Evacuation Input	Activates all alarm devices of the same panel
A – Evacuation Input	Activates all alarm devices of all visible panels
B – Zone Disablement Input	Disables the zone to which the module is configured
R – Local Day Mode Activation Input	Sets this panel in day mode
S – Local Delayed Alarm Enable Input	Enables the delayed alarm function of this panel
T – Local Day Mode and Delayed Alarm Enable Input	Sets this panel in day mode and enables the delayed alarm function
C – Day Mode Activation Input	Sets all visible panels in day mode.
D – Delayed Alarm Enable Input	Enables the delayed alarm function of all visible panels
E – Day Mode and Delayed Alarm Enable Input	Sets all visible panels in day mode and enables the delayed alarm function
F – Delayed Alarm Zonal Silence	Silences a delayed alarm in the same zone as the monitor module and starts delay timer T2
G – Delayed Alarm Zonal Reset	Resets a delayed alarm in the same zone as the monitor module
H – General Silence Input	Silences the alarm condition of all visible panel
I – General Reset Input	Resets the alarm condition of all visible panel
U – Local Fire Alarm Devices Mute Input	Mutes alarm devices of this panel for the time a Voice evacuation message is announced
V – Fire Alarm Devices Mute Input	Mutes alarm devices of all visible panels for the time a Voice evacuation message is announced
W – Voice Evacuation Fault Input	Activates a fault condition with the indication 'Voice Evacuation Fault'
J – Extinguisher Fault Input	Activates a fault condition with the indication 'Extinguisher Fault'
K – Extinguisher Activated Input	Lights up the 'Extinguisher Activated' indicator
L – Smoke ventilation Activated Input	Lights up the 'Smoke ventilation Activated' indicator
M – Customer LED 1 Activation	Lights up the 'Customer LED 1' indicator
N – Customer LED 2 Activation	Lights up the 'Customer LED 2' indicator
O – Internal Logic Input	Signals the internal control logic of the activation
P – External Logic Input	Signals an external control logic of the activation

Note!
Item '2 – Beam Detector' is obsolete and can not be selected. Conventional beam detectors should be connected to a Conventional Zone Module (M512ME)

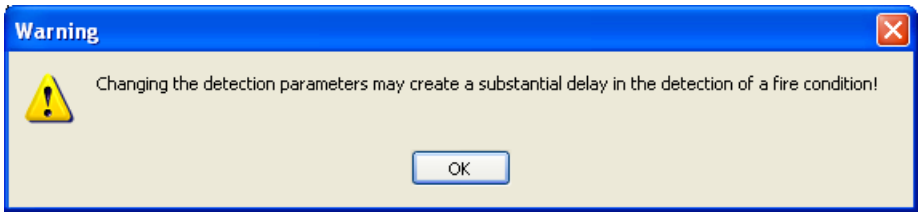
© 2011 Schneider Electric. All rights reserved.

LC loops: Control Module output functions

Selection	Activated ...
0 – Fire Alarm Devices	if fire alarm condition is active and alarm devices are not disabled nor silenced (at access level 2)
1 – Fire Alarm Devices Non-Silence-able	if fire alarm condition is active and alarm devices are not disabled
I – Fire Alarm Devices, Lev. 1 Silence-able	if fire alarm condition is active and alarm devices are not disabled nor silenced (at access level 1 or access level 2)
2 – Fault Warning Alarm Devices	if fault warning condition is active and alarm devices are not disabled nor silenced
G – Voice Evacuation Activate Output	if fire alarm condition is active
H – Voice Evacuation Test Output	if fire alarm is initiated in test condition
3 – Fire Alarm Output	if fire alarm condition is active
4 – Prewarning Output	if prewarning condition is active
5 – Fault Warning Output	if fault warning condition is active
6 – Maintenance Warning Output	if maintenance warning condition is active
J – General Reset Output	for 30 sec. when any alarm condition is reset
7 – Fire Door Output	if any of the conditions set in 'General panel data' – 'Control outputs' – 'Fire door control' is active
8 – Extinguisher Output	if fire alarm condition is active
9 – Disablement Output	if anything is disabled in the panel
A – Access Level Output	if the key is turned to the operating position
B – Technical Alarm Output	if technical alarm
C – Internal Logic Output	by command from the internal control logic
D – External Logic Output	by command from an external control logic
E – Delayed Fire Alarm output	if delayed fire alarm condition is active
F – Fire alarm transmitter activated LED output	If the 'Fire Alarm Transmitter Activated' LED is lit

Changing sensitivity and detection parameters

When you enter any of the detection parameters fields for the first time, the following warning will be displayed:

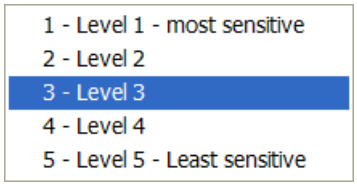


Please be aware that the parameters should only be changed if really needed, and that relevant persons, including fire authorities, insurance company and owner of the building should agree upon the modifications. The person doing the modification has full responsibility that such an agreement exists in writing.

© 2011 Schneider Electric. All rights reserved.

ALC loops and SLC loops (Adv. protocol devices): Fire and prealarm thresholds

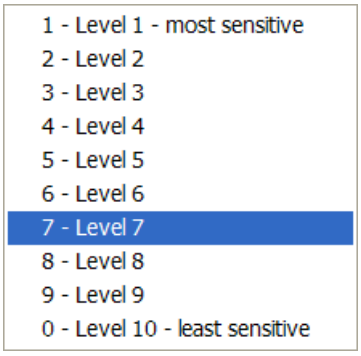
Selectable for all intelligent detectors



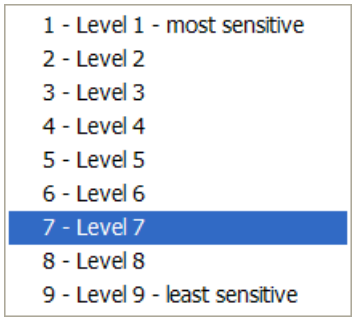
LC loops and SLC loops (200 protocol devices): Fire and prewarning thresholds

To change the alarm threshold for an address, right-click in the field and the level selection menu will be displayed. You can also select a level with the numeric keys without having the level menu displayed.

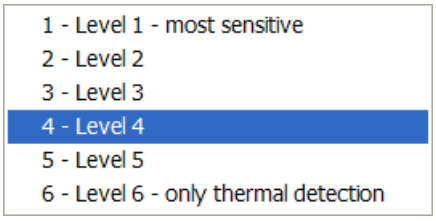
Selectable for the Laser LZR-1 detector



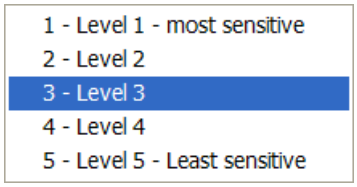
Selectable for the Laser 7251 detector



Selectable for the 2251TEM detector



Selectable for all other detectors



The **Laser LZR-1** detectors in a FX detection zone form a ‘laser group’. This means that all laser detectors in a zone contribute to a common evaluation to issue a fire alarm or prewarning according to the following:

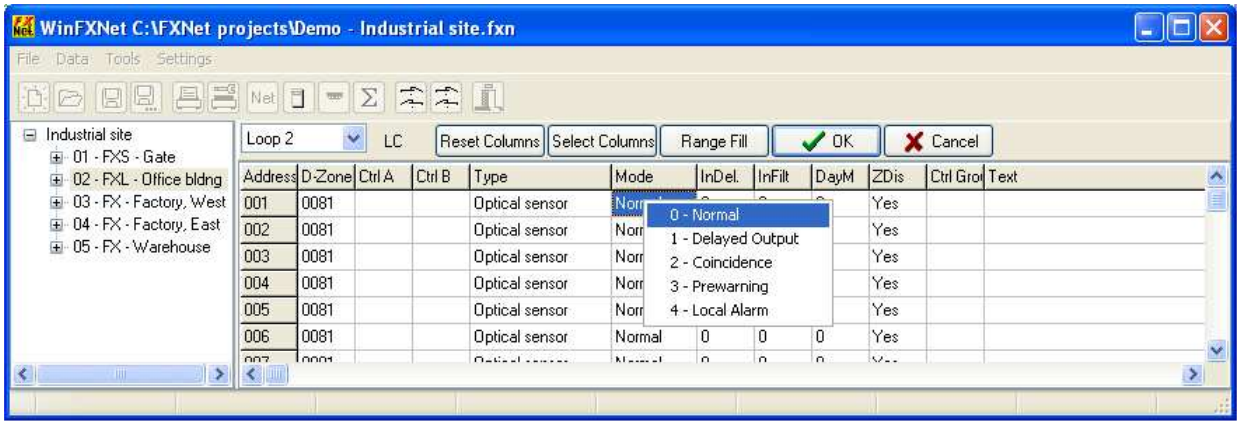
- The values from the laser detectors are scaled to the range 0.00 to 1.00. 1.00 corresponds to the selected prewarning or fire alarm threshold
- The scaled values are squared and added
- If the result is 1.00 or above the group issues a fire alarm.
- Since this ‘group alarm’ is issued before any of the individual detectors are above the alarm threshold, the detector with the highest value will be reported as the alarming address

Note! The **Laser 7251** detector does not have the ‘Laser group’ feature.

© 2011 Schneider Electric. All rights reserved.

Functional mode

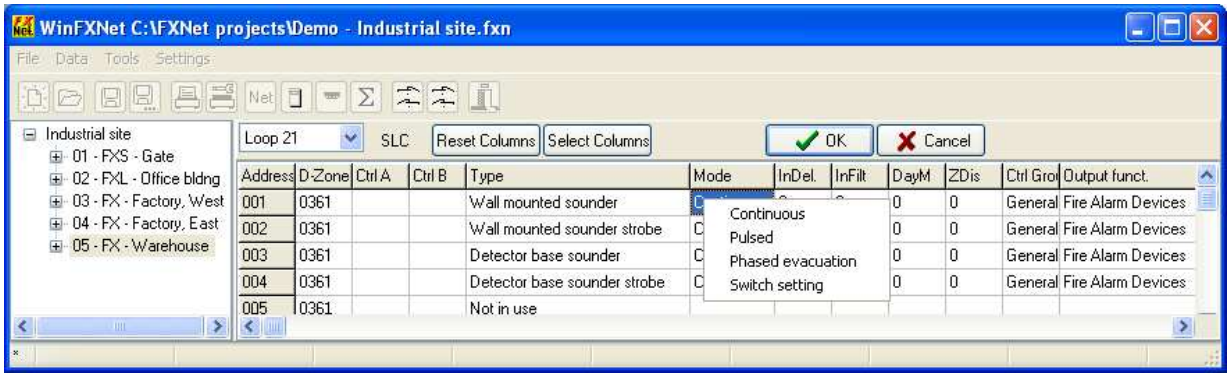
To select the functional mode of an address, right-click with the mouse pointer in the mode field. A menu with available selections will be displayed. You can also select an item with the numeric keys without having the menu displayed.



Selection	Meaning
0 – Normal	No special functional mode
1 – Delayed Output	The alarm transmitter output is delayed according to the times T1 and T2 configured in the 'General Panel Data – Delayed outputs'
2 – Coincidence	The address will not alone issue a fire alarm condition. There has to be another address in alarm condition in the same zone before the alarm will be displayed. If the address is detecting a fire alone, it will be displayed as a prewarning.
3 – Prewarning	The address will not issue a fire alarm condition. It will only display prewarning.
4 – Local Alarm	The alarm transmitter is not activated by an alarm from the address. All other local control functions will take place.

Sounder mode

If the address is an alarm device (sounder), the mode field is used to change the functional mode of sounders. To select the functional mode of an address, right-click with the mouse pointer in the mode field. A menu with available selections will be displayed.

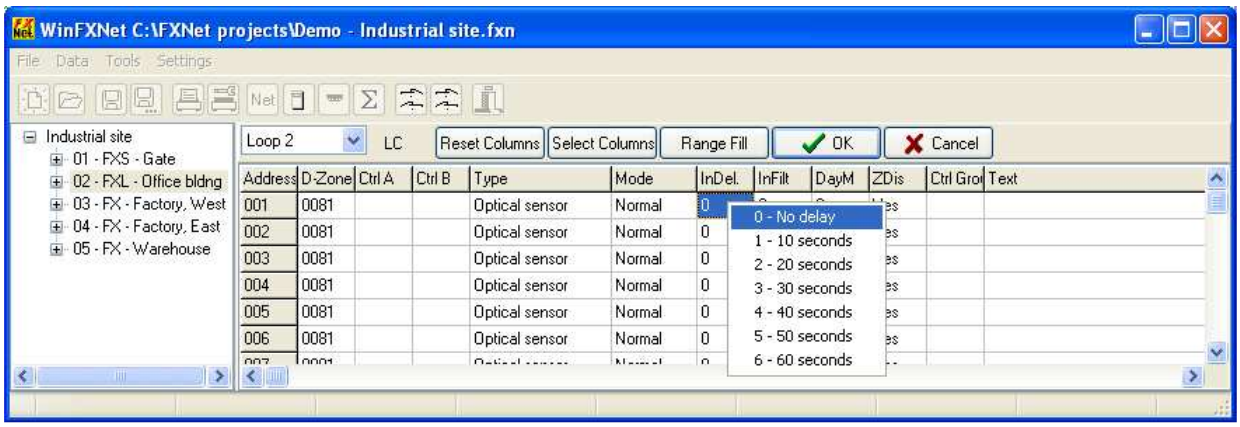

WinFXNet C:\FXNet projects\Demo - Industrial site.fxn
File Data Tools Settings
Industrial site
01 - FXS - Gate
02 - FXL - Office bldng
03 - FX - Factory, West
04 - FX - Factory, East
05 - FX - Warehouse
Loop 21
SLC
Reset Columns
Select Columns
OK
Cancel
Address D-Zone Ctrl A Ctrl B Type Mode InDel. InFilt DayM ZDis Ctrl Grou Output funct.
001 0361 Wall mounted sounder
002 0361 Wall mounted sounder strobe
003 0361 Detector base sounder
004 0361 Detector base sounder strobe
005 0361 Not in use
Continuous
Pulsed
Phased evacuation
Switch setting
General Fire Alarm Devices

Selection	Meaning
Continuous	Continuous mode
Pulsed	Pulsed, or intermittent mode
Phased evacuation	The sounder gives an Alert signal if CtrlGroups includes the alarming detectors CtrlA group and an Evacuate signal if CtrlGroups includes the alarming detectors CtrlB group
Switch setting	Tone and character of sound follows the switch settings in the sounder. Only available for Advanced protocol sounders (in a SLC loop)

© 2011 Schneider Electric. All rights reserved.

Input delay

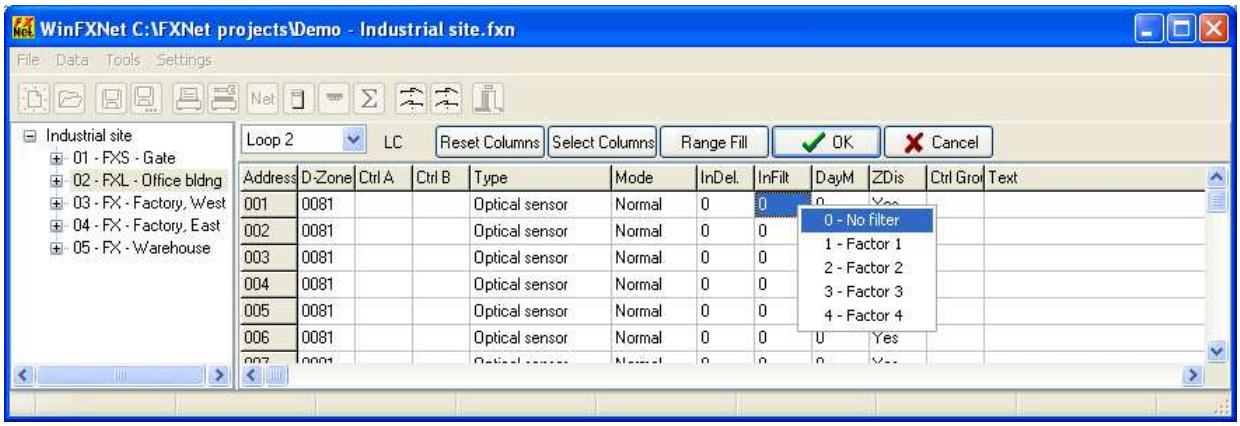
To select 'Input Delay for an address, right-click with your mouse pointer in the 'InD' field. A menu with the available options will be displayed. You can also select the delay times with the numeric keys 0 to 6 without having the menu displayed.


WinFXNet C:\FXNet projects\Demo - Industrial site.fxn
File Data Tools Settings
Industrial site
01 - FXS - Gate
02 - FXL - Office bldng
03 - FX - Factory, West
04 - FX - Factory, East
05 - FX - Warehouse
Loop 2
LC
Reset Columns
Select Columns
Range Fill
OK
Cancel
Address D-Zone Ctrl A Ctrl B Type Mode InDel. InFilt DayM ZDis Ctrl Grol Text
001 0081 Optical sensor Normal 0
002 0081 Optical sensor Normal 0
003 0081 Optical sensor Normal 0
004 0081 Optical sensor Normal 0
005 0081 Optical sensor Normal 0
006 0081 Optical sensor Normal 0
0 - No delay
1 - 10 seconds
2 - 20 seconds
3 - 30 seconds
4 - 40 seconds
5 - 50 seconds
6 - 60 seconds

The detector has to remain in fire alarm condition for the time specified before an alarm condition will be issued.

The purpose of the delay is to avoid false alarms caused by disturbances in the environment of the detector or detection circuit (loop).

Input filter

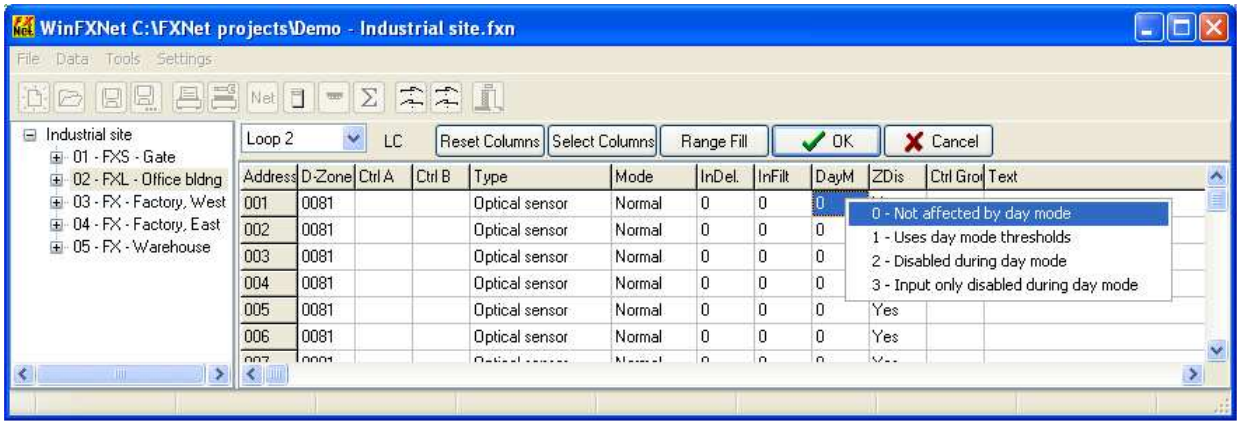

WinFXNet C:\FXNet projects\Demo - Industrial site.fxn
File Data Tools Settings
Industrial site
01 - FXS - Gate
02 - FXL - Office bldng
03 - FX - Factory, West
04 - FX - Factory, East
05 - FX - Warehouse
Loop 2
LC
Reset Columns
Select Columns
Range Fill
OK
Cancel
Address D-Zone Ctrl A Ctrl B Type Mode InDel. InFilt DayM ZDis Ctrl Grol Text
001 0081 Optical sensor Normal 0 0
002 0081 Optical sensor Normal 0 0
003 0081 Optical sensor Normal 0 0
004 0081 Optical sensor Normal 0 0
005 0081 Optical sensor Normal 0 0
006 0081 Optical sensor Normal 0 0 0 Yes
0 - No filter
1 - Factor 1
2 - Factor 2
3 - Factor 3
4 - Factor 4

Note! Input filter setting is not needed and thus not available for Advanced protocol devices.

© 2011 Schneider Electric. All rights reserved.

Effect of day mode activation

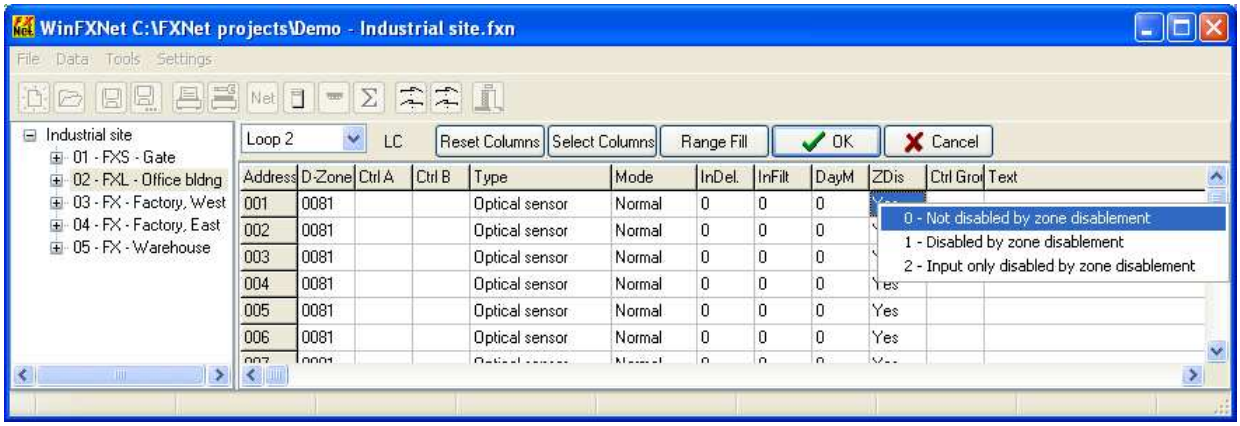
You can define different sensitivities for the detectors in day mode than for normal (night) mode. In this column you can specify whether the address should be affected by day mode at all, and if so whether it should use the day mode sensitivity settings or be disabled.


WinFXNet C:\FXNet projects\Demo - Industrial site.fxn
File Data Tools Settings
Industrial site
01 - FXS - Gate
02 - FXL - Office bldng
03 - FX - Factory, West
04 - FX - Factory, East
05 - FX - Warehouse
Loop 2
LC
Reset Columns
Select Columns
Range Fill
OK
Cancel
Address D-Zone Ctrl A Ctrl B Type Mode InDel. InFilt DayM ZDis Ctrl Grol Text
001 0081 Optical sensor Normal 0 0 0
002 0081 Optical sensor Normal 0 0 0
003 0081 Optical sensor Normal 0 0 0
004 0081 Optical sensor Normal 0 0 0
005 0081 Optical sensor Normal 0 0 0 Yes
006 0081 Optical sensor Normal 0 0 0 Yes
0 - Not affected by day mode
1 - Uses day mode thresholds
2 - Disabled during day mode
3 - Input only disabled during day mode

Selection	Meaning
0 – Not affected by day mode	The address is not affected by day mode
1 – Uses day mode thresholds	The address uses thresholds set in the D-Fire and D-Prew columns during day mode
2 – Disabled during day mode	The address is disabled during day mode. The disablement concerns all functionality of the address. Sensor input, fault monitoring and output control are all disabled.
3 – Input only disabled during day mode	The address is partly disabled during day mode. The disablement concerns the sensor input, or if the address is an IO module the configured input function. Fault monitoring and output function are not disabled.

Effect of zonal disablement

In the ZDis column you can select how a disablement of the zone, to which the address belongs, should affect the address.


WinFXNet C:\FXNet projects\Demo - Industrial site.fxn
File Data Tools Settings
Industrial site
01 - FXS - Gate
02 - FXL - Office bldng
03 - FX - Factory, West
04 - FX - Factory, East
05 - FX - Warehouse
Loop 2
LC
Reset Columns
Select Columns
Range Fill
OK
Cancel
Address D-Zone Ctrl A Ctrl B Type Mode InDel. InFilt DayM ZDis Ctrl Grol Text
001 0081 Optical sensor Normal 0 0 0
002 0081 Optical sensor Normal 0 0 0
003 0081 Optical sensor Normal 0 0 0
004 0081 Optical sensor Normal 0 0 0
005 0081 Optical sensor Normal 0 0 0 Yes
006 0081 Optical sensor Normal 0 0 0 Yes
0 - Not disabled by zone disablement
1 - Disabled by zone disablement
2 - Input only disabled by zone disablement

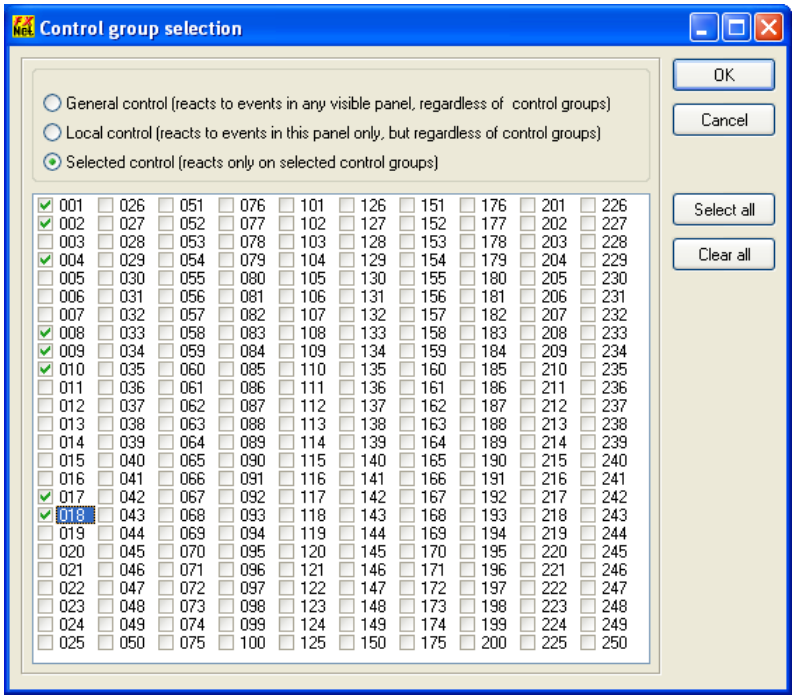
Selection	Meaning
0 – Not disabled by zone disablement	The address will not be disabled when the zone to which it belongs, is disabled.
1 – Disabled by zone disablement	The address will be disabled when the zone to which it belongs, is

© 2011 Schneider Electric. All rights reserved.

	disabled. The disablement concerns all functionality of the address. Sensor input, fault monitoring and output control are all disabled.
2 – Input only disabled by zone disablement	The address will be partly disabled when the zone to which it belongs, is disabled. The disablement concerns the sensor input, or if the address is an IO module the configured input function. Fault monitoring and output function are not disabled.

It is common practice **not** to have e.g. manual call points disabled even if smoke detectors are disabled to prevent unwanted alarms.

Selecting control groups for outputs

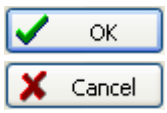

Control group selection
General control (reacts to events in any visible panel, regardless of control groups)
Local control (reacts to events in this panel only, but regardless of control groups)
Selected control (reacts only on selected control groups)
OK
Cancel
Select all
Clear all

Editing texts

In the 'Text' column you a write a text, that will be displayed in the LCD of the panel in conjunction with an alarming address. The text could for example indicate the room number or the location of the detector.

Closing the Address Data window

All changes you have made during the editing of Address Data are stored in a temporary memory, so that you can select whether you want to keep the changes or if you want to return to the data you had before opening of the Address Data window. (Still you have to separately save the data in a file for later retrieval).



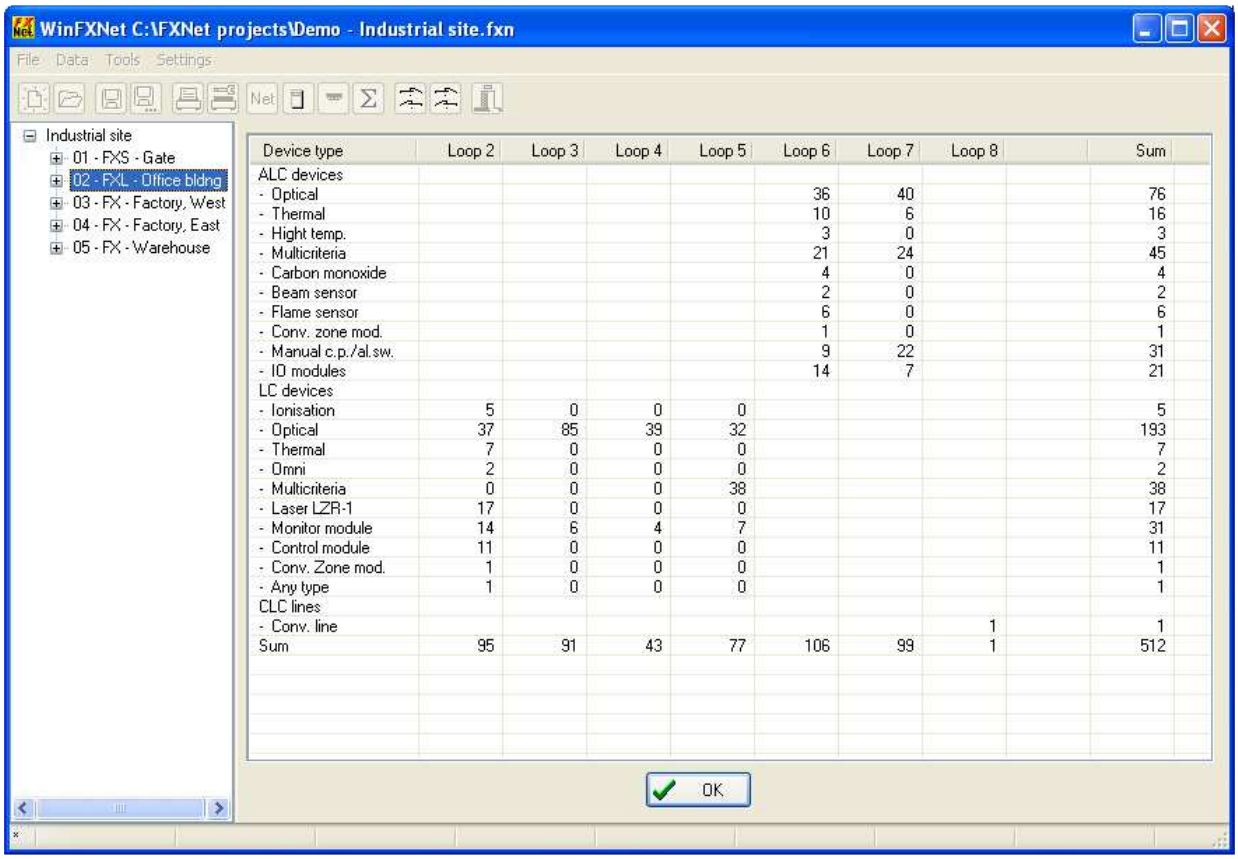
When you have entered data for selected addresses and you want to keep the data you can press the OK-button.

If you want to cancel any changes you have made you can press the Cancel-button.

© 2011 Schneider Electric. All rights reserved.

Summary of addresses

Select ‘Data – Summary Of Addresses’ from the menu or press the Σ speed button to view a summary of the number of addresses in the loops.


WinFXNet C:\FXNet projects\Demo - Industrial site.fxn
File Data Tools Settings
Industrial site
01 - FXS - Gate
02 - FXL - Office bldng
03 - FX - Factory, West
04 - FX - Factory, East
05 - FX - Warehouse
OK

Device type	Loop 2	Loop 3	Loop 4	Loop 5	Loop 6	Loop 7	Loop 8	Sum
ALC devices								
- Optical					36	40		76
- Thermal					10	6		16
- Hight temp.					3	0		3
- Multicriteria					21	24		45
- Carbon monoxide					4	0		4
- Beam sensor					2	0		2
- Flame sensor					6	0		6
- Conv. zone mod.					1	0		1
- Manual c.p./al.sw.					9	22		31
- IO modules					14	7		21
LC devices								
- Ionisation	5	0	0	0				5
- Optical	37	85	39	32				193
- Thermal	7	0	0	0				7
- Omni	2	0	0	0				2
- Multicriteria	0	0	0	38				38
- Laser LZR-1	17	0	0	0				17
- Monitor module	14	6	4	7				31
- Control module	11	0	0	0				11
- Conv. Zone mod.	1	0	0	0				1
- Any type	1	0	0	0				1
CLC lines								
- Conv. line							1	1
Sum	95	91	43	77	106	99	1	512

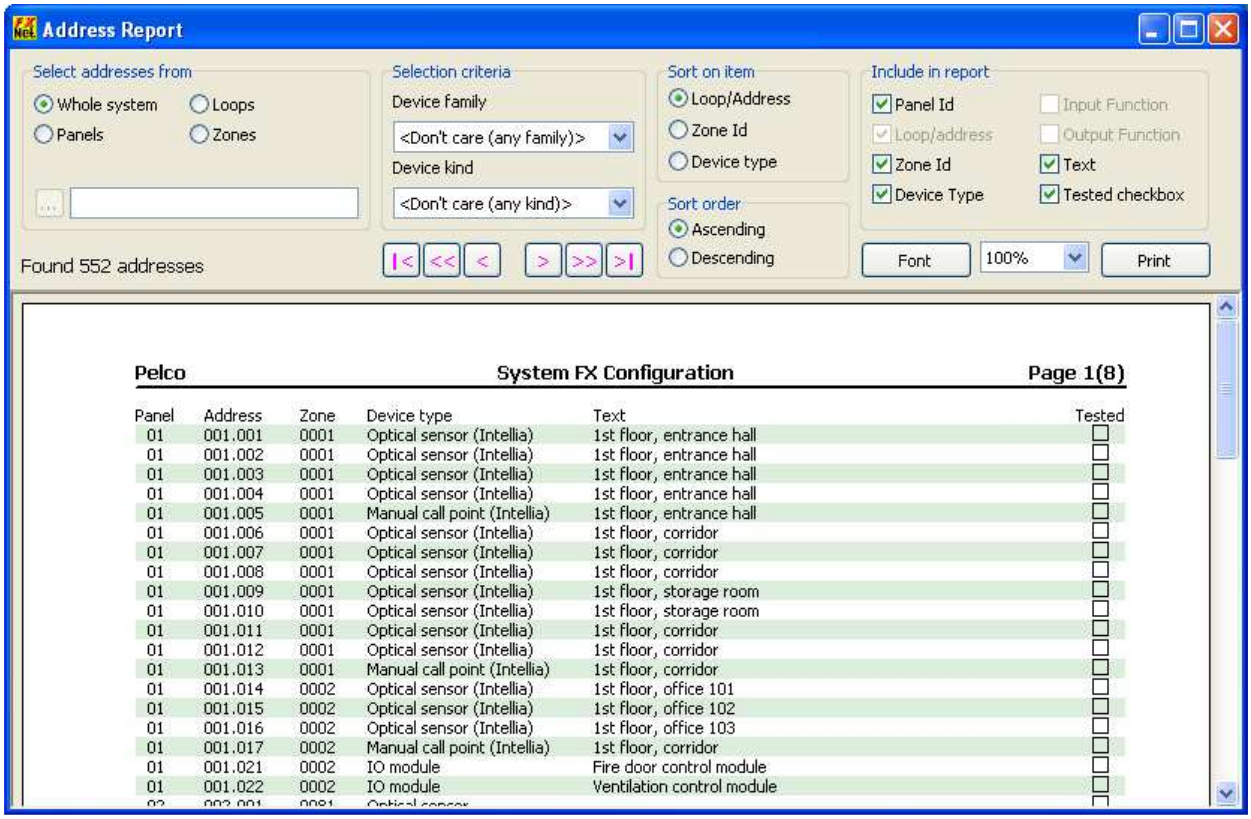
A table with the number of each type in each loop will be displayed separately for devices connected to ALC, SLC and LC loop controllers as well as number of CLC conventional lines.

To close the window, press the OK button.

© 2011 Schneider Electric. All rights reserved.

Address reports

Select 'Data - Address reports' from the menu to create and print sorted and filtered address reports.



Panel	Address	Zone	Device type	Text	Tested
01	001.001	0001	Optical sensor (Intellia)	1st floor, entrance hall	☐
01	001.002	0001	Optical sensor (Intellia)	1st floor, entrance hall	☐
01	001.003	0001	Optical sensor (Intellia)	1st floor, entrance hall	☐
01	001.004	0001	Optical sensor (Intellia)	1st floor, entrance hall	☐
01	001.005	0001	Manual call point (Intellia)	1st floor, entrance hall	☐
01	001.006	0001	Optical sensor (Intellia)	1st floor, corridor	☐
01	001.007	0001	Optical sensor (Intellia)	1st floor, corridor	☐
01	001.008	0001	Optical sensor (Intellia)	1st floor, corridor	☐
01	001.009	0001	Optical sensor (Intellia)	1st floor, storage room	☐
01	001.010	0001	Optical sensor (Intellia)	1st floor, storage room	☐
01	001.011	0001	Optical sensor (Intellia)	1st floor, corridor	☐
01	001.012	0001	Optical sensor (Intellia)	1st floor, corridor	☐
01	001.013	0001	Manual call point (Intellia)	1st floor, corridor	☐
01	001.014	0002	Optical sensor (Intellia)	1st floor, office 101	☐
01	001.015	0002	Optical sensor (Intellia)	1st floor, office 102	☐
01	001.016	0002	Optical sensor (Intellia)	1st floor, office 103	☐
01	001.017	0002	Manual call point (Intellia)	1st floor, corridor	☐
01	001.021	0002	IO module	Fire door control module	☐
01	001.022	0002	IO module	Ventilation control module	☐

Select addresses from

Whole system — Addresses are selected from the whole system. The report will include all adresses in the FXNet system that fullfill the selection criteria (see below).

Panels — Addresses are selected from selected panels. The report will include all adresses in the selected panel(s) that fullfill the selection criteria (see below).

Loops — Addresses are selected from selected loops. Any one or more loops can be selected and the report will include addresses in these loops that fullfill the selection criteria.

Zones — Addresses are selected from selected zones. Up to 250 (consecutive) zones can be selected and the report will include addresses in these zones that fullfill the selection criteria.

Selection criteria

Device family — **Addresses that are configured for the selected loop controller type are included in the report. Note that S200 devices in a SLC loop are included with the AP200 series devices.**

Device kind — **Addresses that belong to the selected kind are included in the report. Selectable kinds are 'Any kind', 'Detectors' and 'IO modules'.**

Sort on item

Loop/address — **The report is sorted in address order.**

Zone Id — **The report is sorted in zone order. Within a zone the addresses are sorted in address order.**

Device type — **The report is sorted in device type order. Within a device type the addresses are sorted in address order. Note that sorting is not done on the textual representation of the device type but on the internal encoding.**

Sort order

Ascending — **Sorting order is ascending.**

Descending — **Sorting order is descending**

© 2011 Schneider Electric. All rights reserved.

Include in report

Panel	**The panel number column is included in the report.**
Address	**The address column is included in the report. This is allways selected.**
Zone	**The zone column is included in the report.**
Device type	**The device type column is included in the report.**
Input function	**Currently not selectable.**
Output function	**Currently not selectable.**
Text	**The text column is included in the report.**
Tested checkbox	**The 'Tested' checkbox column is included in the report. The purpose is to enable documentation of tested addresses as a final step in a commssioning. The installer prints out a report and marks the tested addresses as the testing proceeds.**

Navigating between pages

Navigation buttons	**The buttons provide stepping to the first page, -10 pages, -1 page, +1 page +10 pages and to the last page.**

Font selection

Font button	**The button opens a font selection dialog to select font type and size.**

Line height selection

Line height list	**The dropdown list offers selection of line heights in the range 100% .. 200%.**

Printing to printer

Print button	**The button opens a dialog for selection of printer and the pages to be printed.**

File Opening, Merging and Saving

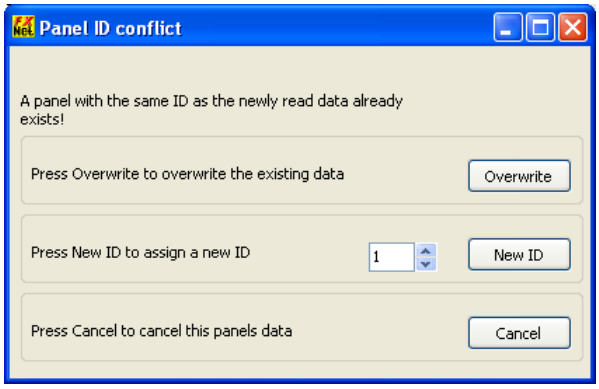
Opening an existing file

Select 'File - Open' from the menu or press the button to open a file. The file is verified to be an FX file and is then read into memory and you can work with the data.

Merging an existing FX file

Select 'File - Merge FX file ...' from the menu (this function has no toolbar button). The file may be a file for a standalone panel or contain data for several panels. The data of the panels in the file are merged with configuration data already in memory.

If configuration data already in memory contains a panel with the same ID as any of the panels in the file, you will be prompted to resolve the ID conflict.

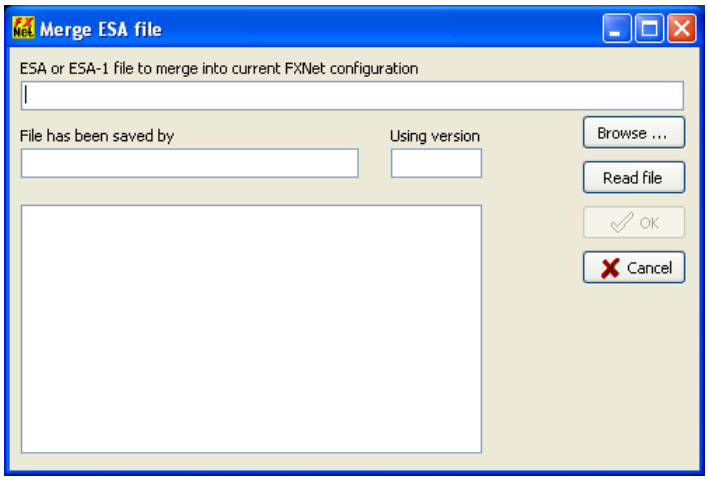

Panel ID conflict
A panel with the same ID as the newly read data already exists!
Press Overwrite to overwrite the existing data
Overwrite
Press New ID to assign a new ID
1
New ID
Press Cancel to cancel this panels data
Cancel

If you select to Overwrite, the data of the panel in memory with the same ID will be overwritten with the data of the panel in the file.
If you select a new ID with the up-down buttons and press 'New ID' the data of the panel in the file will be merged with the new panel ID.
If you select 'Cancel' the data of the panel in the file will not be merged into memory.

© 2011 Schneider Electric. All rights reserved.

Merging an existing ESA file

Select 'File - Merge ESA file ...' from the menu (this function has no toolbar button).



The "Merge ESA file" dialog has an edit field for the ESA file name. Type the name of the file (including path) or click "Browse ..." to select a file from the standard file open dialog.

Click the "Read file" button to read the file. The "File has been saved by" field will show the licensee who has saved the file and the field "Using version" will show the version of the ESA configuration tool with which the file was made. Additional information about the file will be shown in the large edit field. Verify that the file indeed appears to contain the configuration data you want to merge.

Click the "OK" button to perform the conversion into an FX configuration. Since some data items in the ESA configuration do not have a direct correspondence in the FXNet data items, a list of data items that might need the user's attention is produced and shown in a separate window. Do not close this window before you have verified and/or changed the listed data items.

The "Cancel" button will cancel the operation if clicked before the "OK" button.
Settings that needs to be set manually:

ESA IO settings	The ESA-2 panel inputs and outputs are setup with switches and jumpers and can therefore not be determined from the configuration file. ESA-1 input and output functions are set in the configuration, so could be converted. However, there's no direct correspondence between the physical inputs and outputs (MC IO or IOC or OCA) so the IO settings are left to the user
Seeing - Visible panel relations	Since the ESA-MESA or ESA-MAXI systems do not have the concept of seeing - visible panel relations, these have to be set by the user
Control groups	The ESA panels do not have the concept of control groups. Therefore the CtrlA and CtrlB settings of inputs and Control Groups settings of outputs need to be set manually, if the default settings are not suitable. The default setting of the conversion leaves the "CtrlA" and "CtrlB" fields of inputs empty and "Control Groups" field of outputs as "Local" if the output function was a "Zonal" function or "General" if the output function was a "General" function.
Input functions	Some ESA input address settings do not have a corresponding input function for the FX addresses. These addresses are removed from the configuration.
Output functions	Some ESA output address settings do not have a corresponding output function for the FX addresses. These addresses are removed from the configuration.

Saving data to a file

© 2011 Schneider Electric. All rights reserved.

Select ‘File – Save’ from the menu or press the button to save the data in a file with the same name as when you opened the file.

Select ‘File – Save As ...’ from the menu or press the button if you want to change the filename or if it is a new file.

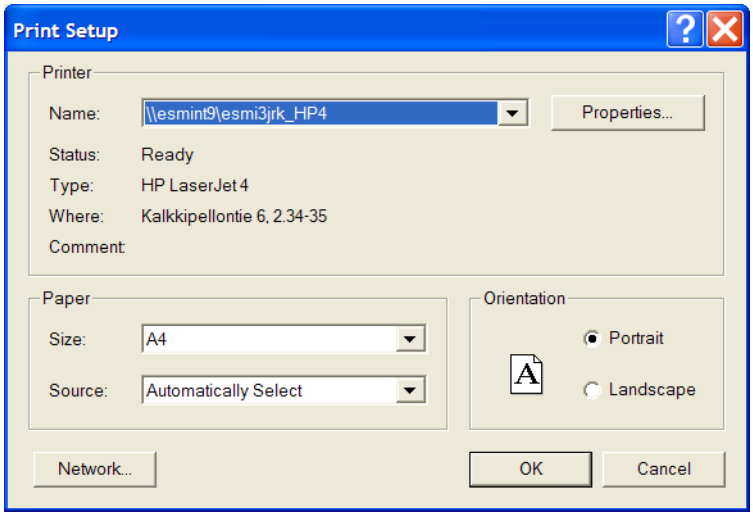
The program creates a backup file of an existing file that has the same name as you attempt to save. The existing file is renamed by adding an extra extension in the format "~xx~" where xx is a numeric value from 00 to 99. The number of backup files is fixed to 10 and if the number of backup files increases over 10, the oldest file is deleted. E.g. when backup file ~10~ is created, the backup file ~00~ is deleted.

© 2011 Schneider Electric. All rights reserved.

Printing

Printer setup

Select ‘File – Printer setup ...’ from the menu or press the speed button to setup your printer.



The printer set up dialog may look different in your computer because it is provided by your printer driver or by your operating system

Recommended setting for the orientation is ‘Portrait’.

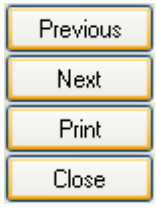
© 2011 Schneider Electric. All rights reserved.

Printing the data

To print the configuration data, select in the left pane whether you want to print the network data or data of an individual panel.

Then select 'File – Print' from the menu or press the speed button to print the data.

You will be presented a preview of the selected data.
The Preview window has the following buttons:



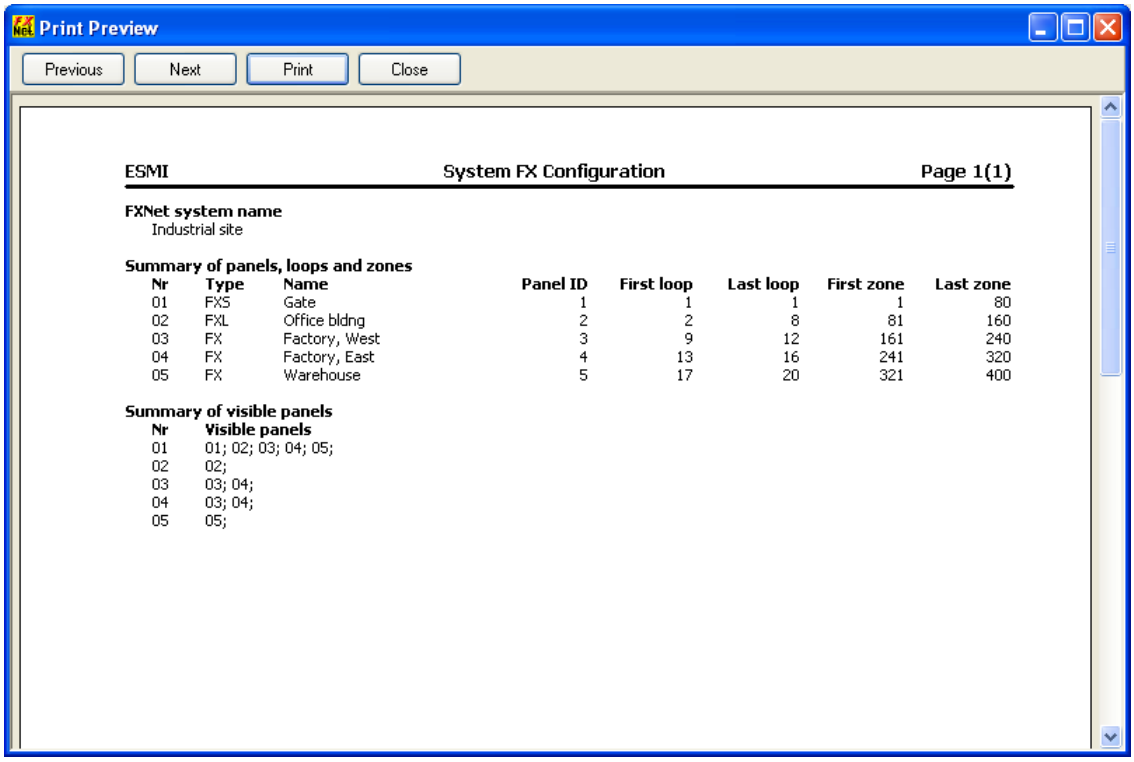
To scroll to the previous page

To scroll to the next page

To print the data on a printer

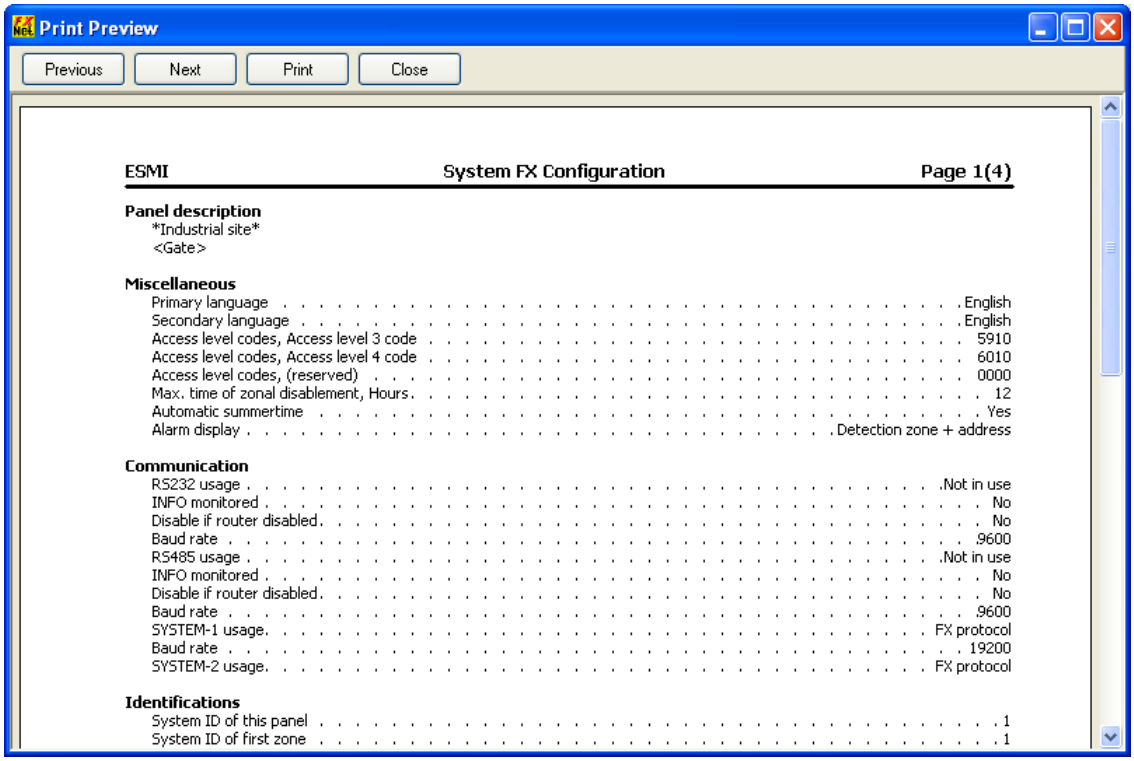
To close the preview window

If you selected FXNet data to be printed, you will be presented a preview of the data to be printed:


Print Preview
Previous
Next
Print
Close
ESMI
System FX Configuration
Page 1(1)
FXNet system name
Industrial site
Summary of panels, loops and zones
Nr Type Name Panel ID First loop Last loop First zone Last zone
01 FXS Gate 1 1 1 1 80
02 FXL Office bldng 2 2 8 81 160
03 FX Factory, West 3 9 12 161 240
04 FX Factory, East 4 13 16 241 320
05 FX Warehouse 5 17 20 321 400
Summary of visible panels
Nr Visible panels
01 01; 02; 03; 04; 05;
02 02;
03 03; 04;
04 03; 04;
05 05;

© 2011 Schneider Electric. All rights reserved.

If you selected a panel's data to be printed the following preview window will be shown:


Print Preview
Previous
Next
Print
Close
ESMI
System FX Configuration
Page 1(4)
Panel description
Industrial site
<Gate>
Miscellaneous
Primary language . . . English
Secondary language . . . English
Access level codes, Access level 3 code . . . 5910
Access level codes, Access level 4 code . . . 6010
Access level codes, (reserved) . . . 0000
Max. time of zonal disablement, Hours . . . 12
Automatic summertime . . . Yes
Alarm display . . . Detection zone + address
Communication
RS232 usage . . . Not in use
INFO monitored . . . No
Disable if router disabled . . . No
Baud rate . . . 9600
RS485 usage . . . Not in use
INFO monitored . . . No
Disable if router disabled . . . No
Baud rate . . . 9600
SYSTEM-1 usage . . . FX protocol
Baud rate . . . 19200
SYSTEM-2 usage . . . FX protocol
Identifications
System ID of this panel . . . 1
System ID of first zone . . . 1

© 2011 Schneider Electric. All rights reserved.

To send/receive data to/from the panel

Sending data to a panel

Select the panel to which you want to send data in the left pane.

The select 'Tools – Send To Panel ...' from the menu or press the speed button to send configuration data to the panel.

Reading data from a panel

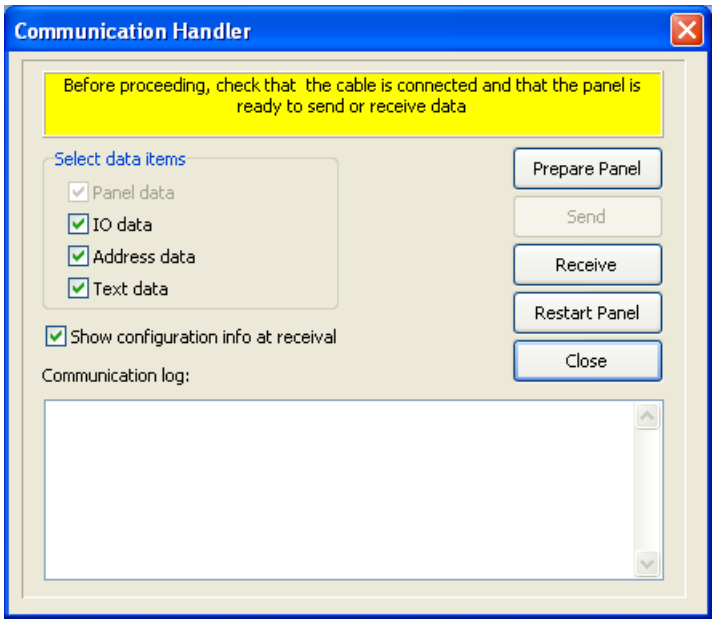
Reading data from a panel can be considered similar to merging a file. You have to select the FXNet level (root level) in the left pane.

Then select 'Tools – Receive From Panel ...' from the menu or press the speed button to receive existing configuration data from the panel.

If a panel with the same ID as the one you are attempting to read from already exist, you will be prompted to resolve the Panel ID Conflict, just as with merging files. See chapter 0 for details on options.

Communication handler dialog

The sending and receiving dialogs (Communication handler) are identical except for the 'Send' and 'Receive' buttons that are enabled or disabled depending on if you are sending or receiving.



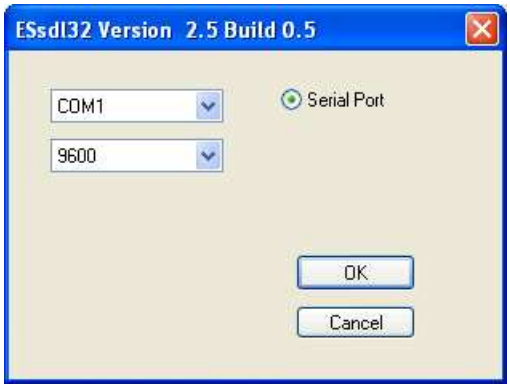
The 'Show ESA configuration info at receival' checkbox, if checked, will display information about the configuration data currently existing in the ESA and you will have the option of cancel the data transfer.

© 2011 Schneider Electric. All rights reserved.

The buttons in the dialog have the following functions:

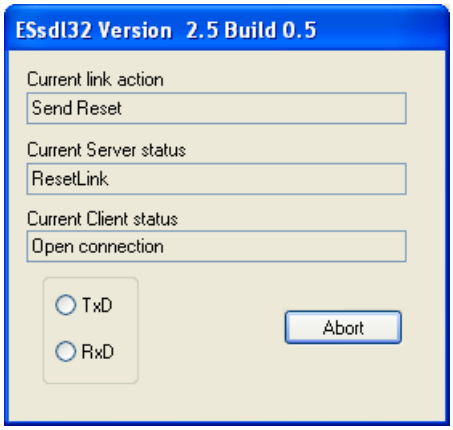
Button	Meaning
Prepare the panel	To prepare the panel to send or receive data. The panel indicates that it is ready for configuration in its LCD.
Send	To send configuration data from the PC to the panel
Receive	To receive existing configuration data from the panel to the PC
Restart the panel	To restart the panel after the transmission of configuration data.
Close	To close the communication handler dialog.

When you select to send or receive a communication setup dialog will be shown:



Select the communication port in your PC which is connected to the panel.
Leave the communication baud rate as ‘9600’.

When you select OK to proceed, a communication server window will be shown:



The ‘RxD’ and ‘TxD’ led imitators will flash green when data is received or transmitted.

If the communications seems to stop for longer than a minute make exact notes about the messages in the ‘Current link action’, ‘Current link status’ and ‘Current server status’ fields.

When data transmission is ready the communication server window will close and focus will be returned to the Communication handler for further actions by you.

© 2011 Schneider Electric. All rights reserved.

To EXIT the program

Click the Terminate button, , or select '**File – Exit**' from the menu or click the button to terminate the program. If you have made modifications that are not yet saved, you will be prompted whether you want to save before termination.

© 2011 Schneider Electric. All rights reserved.